Y-12

OAK RIDGE Y-12 PLANT

MARTIN MARIETTA

UNCLASSIFIED DESCRIPTIONS OF INACTIVE HAZARDOUS WASTE DISPOSAL SITES AT THE OAK RIDGE Y-12 PLANT

J. K. BAILEY

AUGUST 1984

Distribution

Recipients
J. M. Mills, Jr.
-Y-12 Central Files (RC)

OPERATED BY
MARTIN NARIETTA ENERGY SYSTEMS, INC.
FOR THE UNITED STATES
DEPARTMENT OF ENERGY

Issue Date: August 1984

UNCLASSIFIED DESCRIPTIONS OF INACTIVE WASTE DISPOSAL SITES AT THE OAK RIDGE Y-12 PLANT

J. K. Bailey

August 1984

Prepared by the
Y-12 Plant
Oak Ridge, Tennessee 37831
operated by
MARTIN MARIETTA ENERGY SYSTEMS, INC.
for the
U.S. DEPARTMENT OF ENERGY
Under Contract No. DE-ACO5-840R21400

FOREWORD

As an enclosure to his August 24, 1984 letter to H. D. Hickman, entitled "Inactive Hazardous Waste Disposal Sites," G. G. Fee transmitted two versions of completed forms entitled "Report on Potential Hazardous Waste Disposal Facility" for 21 waste disposal activities or sites associated with Y-12 Plant.

As explained in his letter, a complete set of forms was transmitted to DOE-ORO with some data omitted to make them unclassified. A second set of forms (for file of the sites) with all data included was also transmitted. For archival and reference purposes, the unclassified forms have been incorporated in this unclassified document. The classified versions have been included in a classified supplement, Y/TS-344, Part 2.

October 1987 L. L. McCauley

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^{*}See Y/TS-344, Part 2 for reports containing classified data.

Division of Solid Waste Management

Report on Potential Hazardous Waste Disposal Facility

| | | | | | | L IDENTIF | ICATION |
|--|--|--------------------------------------|------------------|---|----------------------------|----------------------------------|--------------------------|
| PART 1 - FACILITY INFORMATION AND ASSESS | SMENT | | | • | | | L FACILITY ID NO. /A |
| II. FACILITY NAME AND LOCATION | | | • | | | | |
| 01 FACILITY NAME (Legal, common, or descriptive name of sit | | | | | PECIFIC LOCATION | ON IDENTIFIER | 1 |
| Y-12 Hazardous Chemical Disposa | il Area | | P. U. | BOX Y | OS COUNTY | | 07 COUNTY |
| Oak Ridge | | | TN | 37831 | Anders | on | OF COUNTY . |
| | 0 6' _ | 5_5" | | | | | |
| os DIRECTIONS TO FACILITY (Sterling from neerest public ros Approximately 2.5 miles west on Plant. | | reek | Road f | rom the m | ain porta | l of the | e Y-12 |
| III. RESPONSIBLE PARTIES | | | | • | | | • |
| U.S. Department of Energy | | | P. O. | . Box E | | | • |
| Oak Ridge | | | O4 STATE TN | 37831 | 06 TELEPHONE | | |
| G7 OPERATOR (If known and different from owner) | | | OS STREET | 1 | 1 | | |
| Same as above | | | | | | | |
| OS CITY | | | 10 STATE | 11 ZIP CODE | 12 TELEPHONE | NUMBER | ·. |
| 13 TYPE OF OWNERSHIP (Check only) | U.S. | ר ר |) F | | <u> </u> | | |
| G A-PRIVATE & S. FEDERAL: | <u> </u> | (Agency | neme) | | C C STATE | C D. COUNT | TY DEMUNICIPA |
| G F. OTHER: | (Speci | ityj | | · | GUNKNOW | 'N | |
| 14 FACILITY STATUS (Greek one) | 15 YEARS O | F OPERA | TION | 1975 | 1981 | | CI UNKNOW |
| A ACTIVE A BLINACTIVE C C. UNKNOWN | | | | BEGINNING YE | AR ENDIN | G YEAR | |
| IV. NOTIFIER INFORMATION | | | | | | | Suc su de como |
| OF NOTIFIER NAME (Company name) | 02 STREET O | | | | | 1 | DNE NUMBER |
| U.S. Department of Energy | P. 0. | | | | | OS DATE | 576-0845 |
| A4 6154 | | | | 77 601 12/2 | | , ~~~~~ | ~ |
| οιαν Oak Ridge | OS STATE TN | _ | | orcounty Anderso | n | | 3 / 3 / 3 |
| 04 CITY Oak Ridge 09 CONTACT NAME | TN | 3783 | 1 | Anderso | | dge One | MONTH DAY |
| Oak Ridge | | 3783 | | Anderso | n - Oak Ri ironmenta | dge Ope 1 Coord | MONTH DAY Y |
| Oak Ridge | | 3783 | 1 | Anderso | - Oak Ri | dge Ope 1 Coord | MONTH DAY Y |
| Oak Ridge OB CONTACT NAME R. L. Sleeman | TN | 3783 | 10 CONTAC | Anderso | - Oak Ri | dge Ope 1 Coord | MONTH DAY Y |
| Oak Ridge OB CONTACT NAME R. L. Sleeman 11 SIG CODE AND DESCRIPTION LISTED | TN ent Fabr | 3783 | on | Anderso | - Oak Ri | dge Ope 1 Coord | MONTH DAY Y |
| Oak Ridge OB CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compone | TN ent Fabr | 3783 | on | Anderso | - Oak Ri | dge Ope 1 Coord | MONTH DAY Y |
| Oak Ridge OB CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compone 12 SRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS | TN ent Fabr | 3783 | on | Anderso | - Oak Ri | dge Ope 1 Coord | MONTH DAY Y |
| Oak Ridge OB CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compone 12 SRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS | TN ent Fabr PRODUCED. A | icati | On B INCLUDED | Anderso | - Oak Ri ironmenta | dge Ope 1 Coord | MONTH DAY Y |
| Oak Ridge OP CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compone 12 BRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS Production of nuclear weapons | TN ent Fabr produced. A | icati crivines nts | ON SINCLUDED | Anderso TITLE DOE Env | - Oak Ri ironmenta | dge Ope 1 Coord | MONTH DAY Y |
| Oak Ridge OB CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compone 12 SRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS Production of nuclear weapons PART 2 INFORMATION CONCERNING WASTE I. WASTE STATES, QUANTITIES, AND CHARAC 01 PHYSICAL STATES (Check MI IRRI ADDIT) 02 WASTE QU | TN ent Fabr produced. As compones es dispose cteristics | icati crivines nts | ON BINCLUDED | Anderso TITLE DOE Env | - Oak Ri ironmenta | 1 Coord | wonth DAY rations inator |
| Oak Ridge OB CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compone 12 SRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS Production of nuclear weapons PART 2 INFORMATION CONCERNING WASTE L. WASTE STATES, QUANTITIES, AND CHARACT O1 PHYSICAL STATES (Check all Inst. apply) Q2 WASTE QUANTITIES | TN ent Fabr PRODUCED. An compone ES DISPOSE CTERISTICS LANTITY AT SITE LEMES OF WASTE must be independent | icati crivines nts | ON BINCLUDED | Anderso TITLE DOE Env | - Oak Riironmenta | 1 Coord | wonth DAY rations inator |
| Oak Ridge OB CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compone 12 BRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS Production of nuclear weapons PART 2 INFORMATION CONCERNING WASTE I. WASTE STATES, QUANTITIES, AND CHARAC O1 PHYSICAL STATES (Check all Inst apply) CA S. POWDER, FINES CA G. GAS OCCUPANTY OCCUPANT | TN ent Fabr produced. An componed componed | icati crivines nts ED AT R S AT TIL | ON BINCLUDED | Anderso TITLE DOE Env | - Oak Riironmenta | (Check all the | wonth DAY rations inator |
| Oak Ridge OB CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compone 12 SRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS Production of nuclear weapons PART 2 INFORMATION CONCERNING WASTE L. WASTE STATES, QUANTITIES, AND CHARACT O1 PHYSICAL STATES (Check all Inst. apply) Q2 WASTE QUANTITIES | TN ent Fabr produced. Ar componed componed | icati crivines nts | ON BINCLUDED | Anderso TITLE DOE Env CED FACILII ISPOSAL 03 WASTE CH | - Oak Riironmenta | (Check all the Taxic EP Taxic I) | wonth DAY rations inator |

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| | | | | | | | | | | 1. IDENTIFICATION | ATION |
|---------------------------------|-----------------|--|--------------------------------|---|---------------------|---|---|--|---|---------------------------------|-----------------------|
| PART 2 - W. | ASTEINFO | PART 2 - WASTE INFORMATION continued | penultuos | | | | | | | 01 DISPOSAL FACILITY ID NO | ACILITY ID NO. |
| II HAZARDO | DUS WAST | ES (Reference | • Hazardous | II HAZARDOUS WASTES (Reference Hazardous Waste Regulations | s for Code Numbers) | nbers) | - | | | N/A | |
| 01 HAZARDOUS WASTE CODE | 05 | 02 SUBSTANCE NAME | ME | 03 SOURCE OF WASTE (Activity Producing Waste) | S1E bale) | 04 TREATMENT METHOD (Ref. Process Codes) | 05 STORAGE/DISPOSAL METHOD (Ref. Process Codes) | OSAL D6 AMOUNT DISPOSED D99) PER MONTH | | 08 CONCENTRATION AS DISPOSED | 09 UNIT OF MEASURE |
| 0002 | Misc. | Chemicals | | aboratory Ope | rations | 104 | S05/D84 | | Bottle q | quantities | |
| 0003 | y) seg | Cvlinders | | Plant Operatio | ns | T04 | \$05/084 | | Conditio | | |
| 2000 | | 2 12511 | | | | | | | valves | prevent prior | knowledge |
| | | | | | | | | | of gas c | quantity conta | ned by |
| | | | | | | | | | cylinder | | |
| | | | | | | | | | | | |
| | See At | Attachment | 1 for f | further explana | ation. | | | | | | |
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| | | | | | | | | | | | |
| TOTAL QUANT | ITY OF HAZA | TOTAL QUANTITY OF HAZARDOUS WASTE DISPOSED PER MONTH | ISPOSED PER M | s | Unknown | | | | | | |
| PROCESS CODES: | CODES: | | | | | Storeon: | Code | Disposat | 44 | Code | |
| Trestment: | | Code | Trestment | | | | | • | INJECTION WELL | 9/0 | |
| TANK | Tuesto | 101 | OTHER (Use for thermal or blok | OTHER (Use for physical, chemical, theirms) or biological treatment | 55 £ | CONIAINEH <i>(Beile), d'um, eic)</i> TANK HAGEE SHI | 505 502 503 | | ILL PPLICATION | 090 091 | |
| SURFACE IMPOUNDMENT INCINERATOR | OUNDMEN | 103 | processes not surface Impour | processes not occurring in tenks. surface impoundments or inclinerators. | 3 | Waste file Surface impoundment | | | OCEAN DISPOSAL SURFACE IMPOUNDMENT | D83 | |
| | | | Describe the pi | Describe the process in the space provided PARI 2111) | O | OTHER(Describe process in the space provided; Part 2-HI) | s in the space 505 | | OTHER (Describe process in soace provided; Pert 2-11) | | |
| | | | | | | | | | | | |

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| | CORMATION Continued | | - | L IDENTIFIC | |
|---------------------------------------|--|---------------------------------------|----------------------|--|-------------------------|
| PART 2—WASTE IN | FORMATION—Continued | l | • | 01 FACILITY IC | |
| | · · · · · · · · · · · · · · · · · · · | | | | /A |
| III. EXPLANATION OF PRO | CESS CODES, PARTICULARLY | "OTHER" | CODES USED | N PART 2-II. | |
| | | | | | |
| See Attachment 1 | | | | | |
| • | | | | | |
| | • | | | | |
| | | | · | | |
| PART 3—DESCRIPT | IVE INFORMATION | | | | |
| | | · · · · · · · · · · · · · · · · · · · | | | |
| I. FACILITY DESCRIPTION | | | | | • |
| 01 DESCRIPTION OF METHOD O | F OPERATION, CLOSURE, COVER, ETC. | - | | | |
| See Attachment 1 | | | • | | |
| | | | | | |
| 02 CURRENT USE AND SITE SEC | URITY (FENCING, LIGHTING, ETC.) WHER | E APPLICABL | .E. | | |
| | sed for the storage o | | | inders containing | non-corrosive |
| gases. The area | is fenced, posted, an | d locke | ed. | | |
| II. CONTAINMENT | | | | | |
| | king. Liners. Barf.,ers. Leachate Coi | | | | • |
| An unlined surface permeated the soil | e impoundment was use 1. | d to co | ollect effl | uent which then p | percolated/ |
| III. ACCESSIBILITY | | | | | |
| 01 WASTE EASILY ACCESSIBLE | exposed at surface?): 🔲 YES 💢 NO | ı | • | | |
| QZ COMMENTS | • | | | | |
| PART 4—DEMOGR | APHIC, WATER, AND EN | /IRONM | ENTAL DAT | A | |
| 1 Zill 4 Democri | , ii (11.6), (11.1.2.1), (11.1.2.1) | | | | |
| I. DEMOGRAPHIC AND P | ROPERTY INFORMATION | | | | |
| C: ESTIMATED TOTAL POPULAT | | | | | Y-12 Plant |
| A Residents within "2 mi. radius | Zero 8. Residents | within 1 mi. | radius Zero | C. No. Employees | on sits 6000 |
| • | IC MAP FOR 1 MI. RADIUS OF FACILITY S | HOWING TH | E FOLLOWING: | | |
| a. 20 ft. contours | • | | | | |
| | dings and other major structures les (both groundwater and surface water) | | | | |
| II. GROUNDWATER | | | | | |
| 01 GROUNDWATER USE IN VICE | | L IRRIGATIO | (Limited | CIAL INDUSTRIAL IRRIGATION of other sources evaluable) | D E NOT USED, UNUSEABLE |
| 02 POPULATION WITHIN 1 MI. R | AOIUS OF FACILITY | | 03 DISTANCE TO | NEAREST DOWN GRADIENT | (estimate) |
| 04 DEPTH TO UPPERMOST | as direction of uppermost Adulfer FLOW SOUTHWEST | ∞ DEPT | TH TO AQUIFER DNCERN | 07 POTENTIAL YIELD OF AQUIFER 3-5 GPM (gpd) | 08 SOLE SOURCE AQUIFE |
| 5-29 m | 200 FUME2 f | _2/ | i**1 | | - R |

4

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| | | L | IDENTIFICATION | | | |
|--|--|--|---|--|--|--|
| Part 4—water, demographic, and environmental dat | TA . | 01 | FACILITY 10 NO. N/A | | | |
| II. GROUNDWATER—Continued | | | | | | |
| 09 DESCRIPTION OF WELLS (Including usage, depth, and location—letitude and long | pitude—within 1 mi. redius | <i>y</i> | | | | |
| Several monitoring and test wells of various this facility. There are no water supply we facility. | | | | | | |
| 10 RECHARGE AREA | 11 DISCHARGE AREA | | | | | |
| MYES COMMENTS | CX YES COMME | ENTS | | | | |
| III. SURFACE WATER | <u> </u> | · | | | | |
| 01 SURFACE WATER USE (Check one) | | | | | | |
| DRINKING WATER SOURCE B. IRRIGATION, ECONOMICAL IMPORTANT RESOURCES | LY C. COMMERC | IAL INDUSTRIA | AL BE D. NOT CURRENTLY USED | | | |
| 02 POTENTIALLY AFFECTED BODIES OF WATER | | | | | | |
| Tributary to Bear Creek | | | DISTANCE TO SITE 20.02 (mi) | | | |
| Bear Creek ≈0.20 (mi) | | | | | | |
| IV. ENVIRONMENTAL INFORMATION | | | | | | |
| 01 PERMEABILITY OF UNSATURATED ZONE (Check one) | | | | | | |
| | .,10*** to 10** *cm/sec | 🗖 D. GREATER T | HAN 10-tem/sec | | | |
| 02 PERMEABILITY OF BEDROCK (Check one) | | | | | | |
| | | | | | | |
| A IMPERMEABLE & S. RELATIVELY IMPERMEABL (Less than 10 cm/sec) (10 to 10 cm/sec) | E G C RELATIVEL | | O. VERY PERMEABLE Greeter than 10 ⁻⁴ cm/sec) | | | |
| | 70~1010~cm/s | pH (| | | | |
| (Less than 10 cm/sec) (10 to 10 cm/sec) 03 DEFTH TO BEDROCK 04 DEPTH OF CONTAMINATED SOIL ZONE Unknown (tt) 26 NET PRECIPITATION/YEAR 07 TEN YEAR 24 HOUR RAINFALL 08 | 06'SOIL 6-7 | pH (| Greater than 10 ⁻⁺ cm/sec; | | | |
| (Less than 10 cm/sec) (10 to 10 cm/sec) 03 DEPTH TO BEDROCK | SITE SLOPE DIRE | ph 77 FIGURE OF SITES South | LOPE TERRAIN AVERAGE SLOPE < 5 % | | | |
| (Less than 10 cm/sec) (10 to 10 cm/sec) O3 DEPTH TO BEDROCK O4 DEPTH OF CONTAMINATED SOIL ZONE O5 NET PRECIPITATION/YEAR O7 TEN YEAR 24 HOUR RAINFALL O8 54.45 (int) O6 NET PRECIPITATION/YEAR O7 TEN YEAR 24 HOUR RAINFALL O8 | SITE SLOPE DIRE | ph 77 FIGURE OF SITES South | COPE TERRAIN AVERAGE SLOPE | | | |
| (Less than 10 cm/sec) (10 to 10 cm/sec) 03 DEPTH TO BEDROCK < 10 | SITE SLOPE DIRE | ECTION OF SITE S SOUTH CAL HABITAT gered species: | LOPE TERRAIN AVERAGE SLOPE < 5 % | | | |
| (Less than 10 cm/sec) (10 to 10 cm/sec) 03 DEPTH TO BEDROCK < 10 | SITE SLOPE DIRE | ECTION OF SITE S SOUTH CAL HABITAT gered species: | LOPE TERRAIN AVERAGE SLOPE < 5 % | | | |
| (Less than 10 cm/sec) (10 to 10 cm/sec) (3 DEFTH TO BEDROCK < 10 (m) OA DEPTH OF CONTAMINATED SOIL ZONE UNKNOWN (m) OS NET PRECIPITATION/YEAR 54.45 (in) OS FLOOD POTENTIAL FACILITY IS IN > 100 YEAR FLOOD PLAIN 10 DISTANCE TO WETLANDS (5 acre minimum) > 5 (min) | SITE SLOPE DIRECTORY 11 DISTANCE TO CRITIC (of endangered special contents) 10 ft. elevati | pm y ECTION OF SITE S SOUTH CAL HABITAT pered species: None (on) situa | LOPE TERRAIN AVERAGE SLOPE <5 % Inknown (mi) ted between | | | |
| (Less than 10 cm/sec) (10 to 10 cm/sec) (2 DEFTH TO BEDROCK (10 | SITE SLOPE DIRECTORY 11 DISTANCE TO CRITIC (of endangered special contents) 10 ft. elevati | pm y ECTION OF SITE S SOUTH CAL HABITAT pered species: None (on) situa | LOPE TERRAIN AVERAGE SLOPE <5 % Inknown (mi) ted between | | | |
| CLESS than 10 cm/sec) (10 to 10 cm/sec) (2 DEFTH TO BEDROCK (10 th) (11 th) (12 DESCRIPTION OF FACILITY IN RELATION TO SURROUNDING TOPOGRAPHY Facility is located in Bear Creek Valley (91) | SITE SLOPE DIRECTORY 11 DISTANCE TO CRITIC (of endangered special contents) 10 ft. elevati | pm y ECTION OF SITE S SOUTH CAL HABITAT pered species: None (on) situa | LOPE TERRAIN AVERAGE SLOPE <5 % Inknown (mi) ted between | | | |
| CLESS than 10 cm/sec) (10 to 10 cm/sec) (2 DEFTH TO BEDROCK (10 th) (11 th) (12 DESCRIPTION OF FACILITY IN RELATION TO SURROUNDING TOPOGRAPHY Facility is located in Bear Creek Valley (91) | SITE SLOPE DIRECTORY 11 DISTANCE TO CRITIC (of endangered special contents) 10 ft. elevati | pm y ECTION OF SITE S SOUTH CAL HABITAT pered species: None (on) situa | LOPE TERRAIN AVERAGE SLOPE <5 % Inknown (mi) ted between | | | |
| (Less than 10 cm/sec) (10 to 10 cm/sec) (2 DEFTH TO BEDROCK (10 | SITE SLOPE DIRECTORY 11 DISTANCE TO CRITIC (of endangered special control of the | pm y ECTION OF SITE S SOUTH CAL HABITAT pered species: None (on) situa | LOPE TERRAIN AVERAGE SLOPE <5 % Inknown (mi) ted between | | | |
| (Less than 10 cm/sec) (10 to 10 cm/sec) (2 DEFTH TO BEDROCK (10 | SITE SLOPE DIRECTORY 11 DISTANCE TO CRITIC (of endangered special control of the | pm y ECTION OF SITE S SOUTH CAL HABITAT pered species: None (on) situa | LOPE TERRAIN AVERAGE SLOPE <5 % Inknown (mi) ted between | | | |
| (Less than 10—cm/sec) (10— to 10—cm/sec) (20 DEPTH TO BEDROCK (10) (10) (10) (11) (11) (11) (12) (13) (14) (14) (15) (14) (15) (16) (16) (17) (17) (18) (18) (18) (18) (18) (18) (18) (19) (10) (10) (10) (10) (11) (11) (11) (12) (13) (14) (15) (16) (17) (17) (18) (| SITE SLOPE DIRECTORY 11 DISTANCE TO CRITIC (of endangered special control of the | pm y ECTION OF SITE S SOUTH CAL HABITAT pered species: None (on) situa | LOPE TERRAIN AVERAGE SLOPE <5 % Inknown (mi) ted between | | | |
| CLESS THAN 10 CHINGSC) GI DEPTH TO BEDROCK C 10 (III) OA CEPTH OF CONTAMINATED SOIL ZONE UNKNOWN (III) OB NET PRECIPITATION/YEAR 54.45 (IIII) OB FLOOD POTENTIAL FACILITY IS IN > 100 YEAR FLOOD PLAIN 10 DISTANCE TO WETLANDS IS ACTO MINIMUM) > 2 DESCRIPTION OF FACILITY IN RELATION TO SURROUNDING TOPOGRAPHY FACILITY IS 10cated in Bear Creek Valley (91) | SITE SLOPE DIRECTORY 11 DISTANCE TO CRITIC (of endangered special control of the | pm y ECTION OF SITE S SOUTH CAL HABITAT pered species: None (on) situa | LOPE TERRAIN AVERAGE SLOPE <5 % Inknown (mi) ted between | | | |
| CLESS then 10—cm/sec) | SITE SLOPE DIRECTORY 11 DISTANCE TO CRITIC (of endangered special control of the | pm y ECTION OF SITE S SOUTH CAL HABITAT pered species: None (on) situa | LOPE TERRAIN AVERAGE SLOPE <5 % Inknown (mi) ted between | | | |
| CLESS IRRN 10—CRISSC: | SITE SLOPE DIRECTORY 11 DISTANCE TO CRITIC (of endangered special control of the | pm y ECTION OF SITE S SOUTH CAL HABITAT pered species: None (on) situa | LOPE TERRAIN AVERAGE SLOPE <5 % Inknown (mi) ted between | | | |
| CLESS IRRA 10—EMPSEC: (10—10 10—CMISSE) CD DEPTH TO BEDROCK CD DEPTH OF CONTAMINATED SOIL ZONE Unknown (H) CD NET PRECIPITATION/YEAR 54.45 (int) CD FLOOD POTENTIAL FACILITY IS IN > 100 YEAR FLOOD PLAIN 10 DISTANCE TO WETLANDS IS ACTO MINIMUM) 12 DESCRIPTION OF FACILITY IN RELATION TO SURROUNDING TOPOGRAPHY Facility is located in Bear Creek Valley (91) Pine Ridge (1,200 ft. elevation) and Chestnum V. PHOTOGRAPHS (Provide copies if readily available) 21 TYPE CX GROUND X AERIAL CM DEPTH OF CONTAMINATED SOIL ZONE Unknown (H) OB LINKTOWN (H) OB CA DEPTH OF CONTAMINATED SOIL ZONE Unknown (H) OB CA DEPTH OF CONTAMINATED SOIL ZONE Unknown (H) OB CA DEPTH OF CONTAMINATED SOIL ZONE (H) OB CONTAMINATED SOIL ZONE (H) OB CA DEPTH OF CONTAMINATED SOIL ZONE (H) CONTAMINATED SOIL ZONE | SITE SLOPE DIRECTOR CONTROL OF SOIL 6-7 SITE SLOPE DIRECTOR CRITIC (of endangered special triangle (1,10) and the control of | SOUTH CAL HABITAT pered species: None (on) situa (o) ft. ele | LOPE TERRAIN AVERAGE SLOPE <5 % Inknown (mi) ted between | | | |

Tennessee Department of Public Health — Division of Solid Waste Management Potential Hazardous Waste Disposal Facility

| SAMPLES TAKEN SAMPLE TYPE GROUNDWATER SURFACE WATER | 01 NUMBER OF | | | | 03 SAMPLING |
|--|-----------------|---|--|-----------------|----------------|
| 45-4164 | SAMPLES TAKEN | 02 BRIEF SUMM | ary of analytical results | | DATES |
| SURFACE WATER | | Some info | ormation available upor | specific | |
| 1 | • | request. | | | |
| AMBIENT AIR | | | | | |
| METHANE | | | | | |
| AUNOFF | | | | | |
| SOIL | | | | | • |
| VEGETATION | | | | | |
| OTHER | | | surements and narrative descripti | | |
| PART 6—OFF-SITE G | | | | | |
| | | | | | , |
| | | TER'S COMPA | NY DISPOSING AT THIS FACILITY | 1 | 02 D - A NUMBE |
| OTHER GENERATOR | | | | (| 02 D + 8 NUMBE |
| | RS WITHIN NOTIF | TER'S COMPA | ODE G3 STREET ADDRESS (P.O. 8) | oz, AFO #. etc) | 02 D + 8 NUMBE |
| OTHER GENERATOR NAME ORNL STREET ADDRESS (P.O. 802 | RS WITHIN NOTIF | 02 D + 8 NUM 02 D + 8 NUM 04 SIC C 739 | ODE G3 STREET AODRESS (P.O. 8) | oz, AFO #. etc) | 04 SIC COD |
| OTHER GENERATOR NAME ORNL STREET ADDRESS (P.O. 802 U. S. Dept. of CITY Oak Ridge | RS WITHIN NOTIF | 02 D + 8 NUM 02 D + 8 NUM 04 SIC C 739 | ODE GS STREET ADDRESS (P.O. 8) E OS GITY 331 | oz, AFO #. etc) | 04 SIC COD |
| OTHER GENERATOR NAME ORNL STREET ADDRESS (P.O. Box U. S. Dept. of | RS WITHIN NOTIF | 04 SIC C 7 39 STATE 07 ZIP CODE | ODE G3 STREET ADDRESS (P.O. 8) CODE O3 STREET ADDRESS (P.O. 8) MBER O1 NAME CODE O3 STREET ADDRESS (P.O. 8) | OS, RFO #, etc) | 04 SIC COD |

ATTACHMENT 1

Additional Comments to Report on Hazardous Waste Disposal Facility - Y-12 Hazardous Chemical Disposal Area, U. S. Department of Energy.

Supplementary Comments for Parts 2 and 3.

A remote area designated as the Hazardous Chemical Disposal Area was constructed in 1975 for the purpose of treating/destroying chemical substances posing safety hazards within the plant. These substances included gas cylinders with leaking or otherwise damaged valves, and chemicals which were reactive, explosive, or potentially explosive.

The chemicals ranged in character from acid/base to organics and from water-reactive (sodium compounds) to explosive (picric acid, benzoyl peroxide, and ether). A vertical concrete pipe with a water spray provided a method for breaking chemical bottles and reacting the substance posing the hazard. The effluent was discharged to a small, unlined surface impoundment and allowed to percolate/permeate the soil.

Gas cylinders containing non-corrosive gases were allowed to leak to the atmosphere or bled-off to expedite the process. Cylinders containing corrosive gases were bled through neutralizing slurries.

Chemicals containing heavy metals and known carcinogens were removed from the area and sent to the Y-12 Walk-In-Pits. Records were kept for identity, quantity, and treatment/disposal of all waste handled at the facility since 1975.

Remaining chemical residue was periodically removed from the concrete vessel and transported to the Y-12 Burial Ground. Empty gas cylinders were removed for repair of faulty valves or destruction.

When the facility is closed, all above-ground fixtures will be removed and buried. The area will be covered with soil and seeded with grass.

Sources of Information for this Report

- 1. Company Operation Files
- 2. Exxon NFRRC, "Preliminary Safety Analysis Report," Docket 50-564, 1975.
- 3. McMaster, W. M., "Geologic Map of the Oak Ridge Reservation, Tennessee,"
 Martin Marietta Energy Systems, Inc., Oak Ridge National Laboratory,
 Health Physics Division, Oak Ridge, Tennessee, 1963.
- 4. McMaster, W. M., "Hydrologic Data for the Oak Ridge Area, Tennessee," U. S. Geological Survey, Water Supply Paper 1839-N, 1967.

Division of Solid Waste Management

Report on Potential Hazardous Waste Disposal Facility

| | | | | | IDENTIFICATION |
|--|------------------|----------------|----------------------|----------------------|--------------------------|
| PART 1 - FACILITY INFORMATION AND ASSESS | SMENT | | | | DISPOSAL FACILITY ID NO. |
| II. FACILITY NAME AND LOCATION | | | | | |
| 01 FACILITY NAME AND LOCATION 01 FACILITY NAME (Legal, common, or descriptive name of site | •) | OZ STREET. | , ROUTE NO. OR | SPECIFIC LOCATION IS | DENTIFIER |
| Y-12 Asbestos Disposal Pits | | | . Box Y | | |
| ©acry Oak Ridge | | OA STATE TN | 37831 | Anderson | or COUNTY . |
| 08 COORDINATES 3 5° 5 7' 5 0" 8 4° | ONGITUDE 1 8' 0" | | | | |
| OS DIRECTIONS TO FACILITY (Starting from neerest public ros Approximately 2.5 miles west on Plant. | Bear Cre | ek Road fi | rom the m | ain portal | of the Y-12 |
| III. RESPONSIBLE PARTIES | | | | | |
| U.S. Department of Energy | | 02 STREET | . Box E | | |
| Oak Ridge | | 04 STATE TN | 37831 | 06 TELEPHONE NU | , |
| of operator (if known and different from owner) Same as above | | OS STREET | r | | |
| OS CITY | | 10 STATE | 11 ZIP CODE | 12 TELEPHONE NU | IMBER . |
| 13 TYPE OF OWNERSHIP (Check one) | 11 C | | | | |
| G A. PRIVATE ON B. FEDERAL! | <u>U. 3.</u> | D. O. E. | · | | D. COUNTY E MUNICIPAL |
| D F. OTHER: | (Specity | | · | G.UNKNOWN | |
| 14 FACILITY STATUS (Check one) | 15 YEARS OF | | 1978 | 1 1984 | |
| | | | 1978 BEGINNING YE | | |
| IV. NOTIFIER INFORMATION | | | | | TELEPHONE NUMBER |
| OT NOTIFIER NAME (Company name) | 02 STREET OR | | | | |
| U.S. Department of Energy | P. O. | | 07 COUNTY | | (615 576-0845 |
| oscary Oak Ridge | OS STATE TN | 37831 | Anderso | l l | 8 / 3 / 84 |
| OUR RINGS | | | | | |
| R. L. Sleeman Environmental Coordinator | | | | | |
| 11 SIC CODE AND DESCRIPTION LISTED | | | | | |
| 2819 - Nuclear Weapons Compone | ent Fabri | cation | | | |
| 12 SRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS | | | D. ETC.) | | |
| Production of nuclear weapons | | | | | |
| • | | | | | |
| | | 140000000 | ucen excu | II TV | |
| PART 2. INFORMATION CONCERNING WASTE | | | | 6 tio 4 - 1 | |
| I. WASTE STATES, QUANTITIES, AND CHARA | CTERISTICS | AI HME OF L | | | |
| (Mei | UANTITY AT SITE | guantities | 03 WASTE C | HARACTERISTICS (C) | Neck all that apply) |
| CA SOLID DE SLURRY | must be independ | tons/yr | □ Igni | stable G To | DENCE |
| C. SLUDGE G. GAS OR CUBIC | C YARDS | | ☐ Res | | P Toxic Achostos |
| D.OTHER (Specify) OR NO. OF | P DRUMS | | - Cor | TOSIVE Ž O | ner_Asbestos_ |
| , | | | 1984 | | |

Tennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

2

| SAM GROSS | TE INCOME | beunlinge MOITENEODMETEN | | | | | | | 1. IDENTIFICATION | ATION |
|--|-------------|---|--|--|--|---|---|---|---------------------------------|-----------------------|
| II. HAZARDOUS | S WASTES (| HAZARDOUS WASTES (Reference Hazardous Waste Regulations | s Waste Regulation | s for Code Numbers) | bors) | | | | N/A | ACH ITY ID NO. |
| DI HAZARDOUS WASTE CODE | 02 SUB | 02 SUBSTANCE NAME | 03 SOURCE OF WASTE (ACIIVILY Producing Wests) | E ito) | 04 TREATMENT METHOD (Ref. Process Codes) | 05 STORAGE/DISPOSAL METHOD (Ref. Process Codes) | DE AMOUNT DISPOSED PER MONTH | 07 UNIT OF MEASURE | 08 CONCENTRATION AS DISPOSED | 09 UNIT OF MEASURE |
| NA | Asbestos | | Plant Maintena & Demolition A | Activities | NA | D80 | 2* | Ton/Mo | NA | NA |
| | | | | | • | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| | | | • | | - | | | | | |
| | | | *Estimated qua | ntity whi | ch includes | asbestos and | asbestos | -contain | ing materials | |
| | | | | de piping | nd other | equipment wra | pped with | aspesto | s materials a | -os- |
| | | | | | | • | - | | | |
| | | | | | | ٠ | | | | |
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| | | | | | - | | | | | |
| | | | | | | | | | | - |
| TOTAL QUANTITY | OF HAZARDOU | TOTAL QUANTITY OF HAZARDOUS WASTE DISPOSED PER MONTH | MONTH 5 Tons, | ns/Mo | | | | | | |
| PROCESS CODES: | DES: . Code | Trestment | • | Code Storage: | ; 00 | Code | Disposat: | | Code | |
| TANK SURFACE IMPOUNDMENT INCINERATOR | | | OTHER luss for physical, chemical, thermal or blotogical treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the process in the space provided: PART 2 III) | TO4 CONT TANK WASI SURF OTHE | CONTAINER (barret, drum, etc) TANN WASTE PILE SURFACE IMPOUNDMENT OTHER (Describe process in the space | 503 801 W W W W W W W W W W W W W W W W W W W | INJECTION WELL LANDFILL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUND OTHER (Describe pre | INJECTION WELL LANDFILL LAND APPLICATION GUGEAN DISPOSAL SURFACE IMPOUNDMENT OTHER (Describe process in space provided; Part 2 lil) | D20 D80 D83 D84 D84 | 1 |

9.

Tennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| | | | I. IDENTIFI | CATION |
|--|---|-----------------------------------|--|------------------------|
| PART 2—WASTE | NFORMATION—Continue | a | 01 FACILITY | D NO. |
| | · | | N/A | |
| . EXPLANATION OF PE | rocess codes, particularly | "OTHER" CODES USED | IN PART 2-IL | |
| aterials were p | laced in trenches and | covered daily. | | |
| | | | | - |
| | • | | | |
| | | | | |
| | | | | |
| PART 3—DESCRIP | TIVE INFORMATION | | | |
| . FACILITY DESCRIPTION |)N | | | |
| 1 DESCRIPTION OF METHOD | of operation. Closure, Cover. etc. | | | • |
| renches were ex | cavated, filled with w lined. Waste was cont | waste, and covered ain place | d with minimum 2-1 stic bags or drums | foot soil. S. |
| | | | | |
| 2 CURRENT USE AND SITE SE | CURITY (FENCING, LIGHTING, ETC.) WHE | RE APPLICABLE | L by TDUE Class | oo nlan bac |
| | n prepared for closured submitted. Area is | | | |
| reen prepared an | a sabilitoca. Aica is | posted and on re- | or reged decess ge | over timette tana. |
| I. CONTAINMENT | · | | | |
| | IKING, LINERS, BARRIERS, LEACHATE CO | LLECTION AND TREATMENT SY | STEMS, ETC | |
| | | - | | |
| no liners or ci | ollection systems were | e used at this lat | .111 Ly. | |
| | | | | |
| I. ACCESSIBILITY | | | | |
| WASTE EASILY ACCESSIBLE | lexposed at surface?): ☐ YES ☐ NO | | | |
| COMMENTS | ~ | | | |
| | | | | |
| 24274 2511005 | ADUKA WATER AND EN | ABONIMENTAL BAT | ۸ | |
| PARI 4—DEMOGR | APHIC, WATER, AND EN | VIRONMENTAL DAT | A | |
| DEMOGRAPHIC AND I | PROPERTY INFORMATION | | | |
| : ESTIMATED TOTAL POPULA | | | | Y-12 Plant |
| Residents within 'n mi. radiu | 7ara | within 1 mi. radius Zero | C. No. Employees | 6000 |
| | HC MAP FOR 1 ML RADIUS OF FACILITY S | HOWING THE FOLLOWING | | |
| a. 20 ft. contours | • | | | |
| | idings and other major structures Mes (both groundwater and surface water) | | | |
| I. GROUNDWATER | | | | |
| T GROUNDWATER USE IN VIC | | _ | | Y |
| A ONLY SOURCE FOR DRIN | KING B. DRINKING (Other sources eveilable) | | CIAL INDUSTRIAL IRRIGATION IN THE SOURCES EVERIBBIES | E NOT USED, UNUSEABLE |
| | C. COMMERCIAL INDUSTRIA (No other water sources ave | | | |
| 2 POPULATION WITHIN 1 MI. I | RADIUS OF FACILITY | 03 DISTANCE TO | NEAREST DOWN GRADIENT | |
| VHICH IS SERVED BY GROUNG | WATER Zero (estimate) | DRINKING WATE | R WELL >5 (mi) | estimatei |
| 64 DEPTH TO UPPERMOST AQUIFER D=20 (m) | 05 DIRECTION OF UPPERMOST | 06 DEPTH TO AQUIFER OF CONCERN | 07 POTENTIAL YIELD OF AQUIFER | 08 SOLE SOURCE AQUIFE! |
| 3-4U m | Southwest | <u>>20</u> (ft) | (gpd) | T YES TO NO |

Fennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| | | LIDENTIFICATION | | | |
|---|--------------------------------|------------------------------|--|--|--|
| PART 4-WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA | | 01 FACILITY ID NO. | | | |
| | • | N/A | | | |
| IL GROUNDWATER—Continued | | | | | |
| 09 DESCRIPTION OF WELLS (Including usage, depth, and location—letitude and longit | | | | | |
| Numerous monitoring and test wells of variou this facility. There are no water supply we facility. | | | | | |
| 10 RECHARGE AREA | 11 DISCHARGE AREA | | | | |
| 2 YES COMMENTS | C YES COMMENTS | | | | |
| III. SURFACE WATER | : | | | | |
| OI SURFACE WATER USE (Check one) | | | | | |
| A. RESERVOIR, RECREATION B: IRRIGATION, ECONOMICALL IMPORTANT RESOURCES | y [] C. Commercial, indus | TRIAL ÖD. NOT CURRENTLY USED | | | |
| 02 POTENTIALLY AFFECTED BODIES OF WATER | | • | | | |
| None due to nature of material. | • | DISTANCE TO SITE | | | |
| None due to nature of material. | | (m) | | | |
| | | (mi) | | | |
| | | | | | |
| IV. ENVIRONMENTAL INFORMATION 01 PERMEABILITY OF UNSATURATED ZONE (Check one) | | | | | |
| ☐ A. 10™10 10™em/sec ☑ 8.10™10 10™em/sec ☐ C. | ine to the leaves of the GREAT | ER THAN 10-107/1380 | | | |
| 12 PERMEABILITY OF SEDROCK (Cheek one) | 10 10 10 thate 2 9. Green | | | | |
| C A IMPERMEABLE S B. RELATIVELY IMPERMEABLE C C. RELATIVELY PERMEABLE | | | | | |
| C3 DEFTH TO SEDROCK < 20 (m) O4 DEFTH OF CONTAMINATED SOIL ZONE 0 (m) | 06 SOIL pM 5-7 | • | | | |
| | SITE SLOPE DIRECTION OF S | TERRAIN AVERAGE SLOPE | | | |
| 54.45(in)5.2(in) | 5 % South | | | | |
| 09 FLOOD POTENTIAL FACILITY IS IN > 100 YEAR FLOOD PLAIN 11 DISTANCE TO CRITICAL HABITAT (af endangered species) Unknown (mi) | | | | | |
| 5 | N | one | | | |
| 10 DISTANCE TO WETLANDS (5 acre minimum) > 5 imil | ENDANGERED SPECIES: | <u> </u> | | | |
| Facility is located in Bear Creek Valley (910 ft. elevation) situated between Pine Ridge (1,200 ft. elevation) and Chestnut Ridge (1,100 ft. elevation). | | | | | |
| • | | | | | |
| • | | | | | |
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| | | | | | |
| V. PHOTOGRAPHS (Provide copies if readily available) | EA 1131/36369 | | | | |
| INAME OF OTHER | DEA DIVISION | | | | |
| 23 DATES (estimated) 1965 Address: |). Box Y Ridge, TN 37831 | | | | |
| LATEST PHOTO DATE 1984 | 1114409 111 3/001 | | | | |

Tennessee Department of Public Health — Division of Solid Waste Management Potential Hazardous Waste Disposal Facility

| NUMBER OF SAMPLES TAKEN | oz ar | RIEF SUMMARY OF AN | NALYTICAL RESULTS | on specific | | 03 SAMPLING DATES |
|----------------------------------|---------|--|--|------------------------------|------------|---------------------------------------|
| | Sor | me informat | | on specific | | |
| | Sor | me informat | | on specific | | |
| | | | ion available up | on specific | | - |
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| LLECTED (Prov | ride fi | eid messuremen | ts and narrative descrip | tion of other fie | id data) | |
| ERATOR INFOR | MATI | ON | | | | |
| WELLAN MATIE | :B'S / | COMBANY DISPO | 20110 AT THE SACE IS | · | | |
| | | | | T | | · · · · · · · · · · · · · · · · · · · |
| VITAIN NOTIFIE | | D+8 NUMBER | OSING AT THIS FACILIT | Y | | 02 D + 8 NUMBER |
|) #, etc.) | | | | | . | |
| e, erc.) nergy | 02 | 0+8 NUMBER 04 SIC CODE 2819 / 739 | 01 NAME C3 STREET ADDRESS (P.O.) | | | 04 SIC CODE |
| e, erc.) nergy | OZ | D+8 NUMBER | 01 NAME G3 STREET ADDRESS (P.O. | | | |
| 1 #, erc.) 1e rgy 08 ST/ | ATE 0 | 0+8 NUMBER 04 SIC CODE 2819 / 739 7 ZIP CODE | 01 NAME C3 STREET ADDRESS (P.O.) | | OS STATE O | 04 SIC CODE |
| 1 #, erc.) 1e rgy 08 ST/ | ATE 0 | 04 SIC CODE 2819 / 739 7 ZIP CODE 37831 | 01 NAME 03 STREET ADDRESS (P.O.) 1 05 CITY | Box, AFO #, etc) | OS STATE O | 04 SIC CODE |
| nergy osst/ TN | ATE O | 0+8 NUMBER 04 SIC CODE 2819 / 739 7 | 01 NAME 03 STREET ADDRESS (P.O.) 1 | Box, AFO #, etc) | OS STATE O | 2D+8 NUMBER |
| | | | lable upon specific reque | lable upon specific request. | | |

Sources of Information for this Report

- 1. Company Operation Files
- 2. Exxon NFRRC, "Preliminary Safety Analysis Report," Docket 50-564, 1975.
- 3. McMaster, W. M., "Geologic Map of the Cak Ridge Reservation, Tennessee," Martin Marietta Energy Systems, Inc., Oak Ridge National Laboratory, Health Physics Division, Oak Ridge, Tennessee, 1963.
- 4. McMaster, W. M., "Hydrologic Data for the Oak Ridge Area, Tennessee," U. S. Geological Survey, Water Supply Paper 1839-N, 1967.

State of Tennessee — Department of Public nearth Division of Solid Waste Management

Report on Potential Hazardous Waste Disposal Facility

| | | | | 1. | IDENTIFI | CATION |
|--|--|----------------|----------------------|--------------------------|---|-----------------------------|
| PART 1 - FACILITY INFORMATION AND ASSESS | MENT | | | - | N/A | FACILITY ID NO. |
| II. FACILITY NAME AND LOCATION | | | | | | |
| 01 FACILITY NAME (Legal, common, or descriptive name of site Y-12 Burn Yard | ı | 1 | ROUTE NO. OR SI | PECIFIC LOCATION | IDENTIFIER | |
| 83 CITY | | O4 STATE | 37831 | S COUNTY Anders | on | OT COUNTY . |
| Oak Ridge | | 111 | 37031 | Allacise | | |
| 08 COORDINATES 3 5° 5 8' 1 0" 8 4° | 1 6' 5 3 | | | | | |
| OP DIRECTIONS TO FACILITY (Starting from nearest public roses Approximately 2.5 miles west of Plant. | n Bear Cre | ek Road | from the | main porta | al of t | he Y-12 |
| IIL RESPONSIBLE PARTIES | | | | | <u></u> | • |
| 01 OWNER (II known) U. S. Department of Energy | | 02 STREET | Box E | | | • |
| Oak Ridge | | 04 STATE TN | 37831 | 615, 576- | | |
| 07 OPERATOR (If known and different from dwner) Same as above | | OS STREET | | | | |
| 09 CITY | | 10 STATE | 11 ZIP CODE | 12 TELEPHONE N | UMBER | |
| 13 TYPE OF OWNERSHIP (Check one) I A. PRIVATE D B. FEDERAL: | (Specity) | | | G.UNKNOWN | | Y BEMUNICIPAL |
| 14 FACILITY STATUS (Check one) II A ACTIVE IN B. INACTIVE II C. UNKNOWN | 15 YEARS OF OI Approxit | | 1943 BEGINNING YE | 1968 AR ENDING | YEAR | □ UNKNOWN |
| IV. NOTIFIER INFORMATION | | | | | 40 TEL 6840 | NE NUMBER |
| 01 NOTIFIER NAME (Company name) | 02 STREET OR BE | | | | | 576 - 0845 |
| U.S. Department of Energy | P. O. B | OX L | 07 COUNTY | | 08 DATE | |
| Oak Ridge | | 37831 | Anderso | n | - | 8 / 3 / 84 MONTH DAY YEA |
| 09 CONTACT NAME | | 10 CONTA | CT TITLE DO | E - Oak Ri vironmenta | dge Ope | erations |
| R. L. Sleeman | | | <u> </u> | IV II Olimeitus | | |
| 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compone | ent Fabric | ation | | | | |
| 12 BRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS | | | D. ETC.) | | | |
| Production of nuclear weapons | | | | | | |
| PART 2 INFORMATION CONCERNING WASTE | S DISPOSED | AT REFERE | NCED FACILI | LTY | | |
| I. WASTE STATES, QUANTITIES, AND CHARA | | | | | | |
| TÀ A. SOLID G. B. POWDER, FINES G. G. GAS OR CUSH | JANTITY AT SITE ESUIPS OF WASTE QUI TONS 4 2 000 C YARDS | | b <u>X</u> ignr | etive 🗆 | Check all that Toxic EP Toxic Other_Ine | |
| D. OTHER (Specify) OR NO. OF | | 042 | 1069 | rosive D | Other | |
| 04 DATES OF WASTE DISPOSAL BY NOTIFER AT ABOVE SI | TE: FROM | 943 re | 1968 | | | |

Tennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| W. CTOAG | PABL 2. WASTE INFORMATION—confined | N-continued | Parameter and the property of the parameter of the parame | | | | | | 1. IDENTIFICATION | ATION |
|--|---|--|--|---|--|---|---|---|---------------------------------|-----------------------|
| II. HAZARD | OUS WASTES (Refe | rence Hazardou | II. HAZARDOUS WASTES (Reference Hezerdous Waste Regulations for 6 | for Code Numbers) |)rs) | | | | N/A | ACILITY ID NO. |
| UI HAZARDOUS WASTE CODE | 02 SUBSTANCE NAME | CE NAME | 03 SOURCE OF WASTE (Activity Producing Waste) | G G | D4 TREATMENT METHOD (Ref. Process Codes) | 05 STORAGE/DISPOSAL METHOD (Ref. Process Codes) | SAL D6 AMOUNT DISPOSED PER MONTH | 07 UNIT OF MEASURE | 06 CONCENTRATION AS DISPOSED | 09 UNIT OF MEASURE |
| N/A | Sanitary Refuse* | use* | Plant Operations | 104 |)4 | NA/D84 | 2 350 | Ton/Mo | NA | NA |
| | *Refuse may b | have contai | ned quantities of | f various | organics | and inorgani | anics includ | ding empt | v pesticide | |
| | containers, metal shav | metal shavailed descr | ings, solvents, iptions for wast | oils, and | lab chei | nicals. Pri | Prior to 1968 available red | _ | ions did not e generalized | |
| | descriptions | of.waste | with no analys | of cor | sition. | | <u> </u> | | | |
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| | | | | | | | | | | |
| TOTAL QUANT | TOTAL QUANTITY OF HAZARDOUS WASTE DISPOSED PER MONTH == | STE DISPOSED PER I | 350 | Ton/No (A | (Approximately | ely) | | | | |
| PROCESS CODES | CODES: | Treelment | Code | Storage: | ¥ | Code | Disposal: | | Code | |
| TANK SURFACE IMPOUNDMENT INCINERATOR | | OTHER (Use to the man or biol processes impour surface the processes in pour provided PARI | OTHER (Use for physical chemical, T04 Instruction bloogical treatment the processes not occurring in lends, surface impoundments of inclinerators. Describe the process in the space provided PART 2 III) | CONTAINER TANK WASTE PILE SURFAGE IM OTHER IDO: Provided; Pa | CONTAINER (borrol, drum, etc) TANK WASTE PILE SURFAGE IMPOUNDMENT OTHER (Doscribe process in the space | 616) S01 502 503 1 1 S04 10 Spece S05 | INJECTION WELL LAND APPLICATIO OCEAN DISPOSAL SURFACE IMPOUN OTHER (Describe) | MJECTION WELL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUNDMENT OTHER (Describe process in space provided; Part 2119) | D26 D64 D63 D64 | |

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Tennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| | | | I. IDENTIFIC | |
|--|---|---------------------------------------|---|------------------------|
| PART 2-WASTE IN | FORMATION—Continued | | 01 FACILITY ID | 4 |
| | | | N, | /A |
| II. EXPLANATION OF PRO | CESS CODES, PARTICULARLY | "OTHER" CODES USED I | N PART 2-II. | |
| Dlant mofuse was | transported to an exce were used to start a | avated trench and | burned. Oils and | d other nches |
| PART 3—DESCRIPT | TIVE INFORMATION | | | |
| I. FACILITY DESCRIPTION | Ν | | | |
| 01 DESCRIPTION OF METHOD O | F OPERATION, CLOSURE, COVER, ETC. | | | • |
| Plant refuse was | collected and placed ry. The filled trenc | in an unlined ear hes were covered | then trench. The with soil. | refuse was |
| | urity (fencing, lighting, etc.) where | | | |
| The facility is i | nactive, posted and 1 | ocated on restric | ted access govern | ment land. |
| | | • | | |
| II. CONTAINMENT | KING. LINERS. BARRIERS, LEACHATE COL | I SCTION AND TREATMENT SYS | TEMS ETC | |
| | | • | | |
| No collection, tr | eatment or liner syst | ems were used. | | |
| | | • | | |
| III. ACCESSIBILITY | | | | |
| | | | | |
| | exposed at surface?): 🖸 YES 🖒 NO | | | |
| 02 COMMENTS | | | | |
| | | | | - |
| PART 4—DEMOGR | APHIC, WATER, AND ENV | IRONMENTAL DATA | A | |
| | , | | | |
| I. DEMOGRAPHIC AND P | ROPERTY INFORMATION | | | |
| CT ESTIMATED TOTAL POPULAT | ION: | | | Y-12 Plant |
| A , Residents within 1's mil radius | Zero B. Residents | within 1 mi. radius Zero | C. No. Employees | on site 6,000 |
| a. 20 ft. contours b. existing roads, built | IC MAP FOR 1 MI. RADIUS OF FACILITY S dings and other major structures les (both groundwater and surface water) | HOWING THE FOLLOWING. | | |
| II. GROUNDWATER | | | | · |
| 01 GROUNDWATER USE IN VICE B A ONLY SOURCE FOR DRINK | | (Limited | CIAL INDUSTRIAL IRRIGATION Tother sources eventable; | E. NOT USED, UNUSEABLE |
| 02 POPULATION WITHIN 1 MI. F WHICH IS SERVED BY GROUND | 7 | 03 DISTANCE TO DRINKING WATE | NEAREST DOWN GRADIENT ER WELL >5 [mil (| estimate) |
| 04 DEPTH TO UPPERMOST | 05 DIRECTION OF UPPERMOST | 06 DEPTH TO AQUIFER | 07 POTENTIAL YIELD | 08 SOLE SOURCE AQUIFE |
| 40015ER 5-20 mi | AQUIFER FLOW | OF CONCERN | OF AQUIFER | C YES TO NO |

Tennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| | | I. IDENTIFICATION |
|--|--------------------------------------|--|
| PART 4-WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DAT | • | 01 FACILITY ID NO. |
| | | N/A |
| II. GROUNDWATER—Continued | | |
| 09 DESCRIPTION OF WELLS (Including usage, depth, and location—letitude and long | | |
| Several monitoring and test wells of various this facility. There are no water supply we facility. | s depths are loc ells within a l- | ated within 3000 ft. of mile radius of this |
| 10 RECHARGE AREA | 11 DISCHARGE AREA | |
| MYES COMMENTS | CKYES COMMENTS | |
| III. SURFACE WATER | | |
| 01 SURFACE WATER USE (Check one) 1 A. RESERVOIR, RECREATION | LY CCOMMERCIAL | INDUSTRIAL IX D. NOT CURRENTLY U |
| 02 POTENTIALLY AFFECTED BODIES OF WATER | | |
| NAME: | • | DISTANCE TO SITE |
| Tributary to Bear Creek | | (mi) |
| Bear Creek | | =0,20 (mi) |
| | | |
| IV. ENVIRONMENTAL INFORMATION | | |
| 01 PERMEABILITY OF UNSATURATED ZONE (Check one) | | GREATER THAN 10-10-10-10-10-00-0 |
| ☐ A, 10 to 10 cm/sec ☐ (B, 10 to 10 cm/sec ☐ C | . 10 - 10 10 - CHUSEC LL L | GREATER TRANS |
| 02 PERMEABILITY OF BEDROCK (Cheek one) □ A IMPERMEABLE | LE D.C. RELATIVELY P | RMEABLE 0. VERY PERMEABLE (Greeter than 10-cm/sec) |
| 03 DEPTH TO SEDROCK 04 DEPTH OF CONTAMINATED SOIL ZON: < 20 | 6 SOIL an | - |
| 06 NET PRECIPITATIONYEAR 07 TEN YEAR 24 HOUR RAINFALL 08 54.45 (int) | SITE SLOPE DIRECTI | South TERRAIN AVERAGE SLO |
| OF FLOOD POTENTIAL IVA FLOOD CONTROL Area | 11 DISTANCE TO CRITICAL | HABITAT Unknown |
| FACILITY IS IN > 100 YEAR FLOOD PLAIN | (of endangers | Unknown (mi) |
| 10 DISTANCE TO WETLANDS (5 sere minimum) > 5 (mil) | ENDANGERED SPECIES | None |
| 12 DESCRIPTION OF FACILITY IN RELATION TO SURROUNDING TOPOGRAPHY | | |
| Facility is located in Bear Creek Valley (9 Pine Ridge (1,200 ft. elevation) and Chestr | 10°ft. elevation out Ridge (1,100 | n) situated between ft. elevation). |
| | | |
| | | |
| • | | |
| | | · |
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| | | |
| | | • |
| V. PHOTOGRAPHS (Provide copies if readily available) | | |
| V_!2 | SEA UIVISION | |
| OT TYPE CIXGROUND IN AERIAL OZ IN CUSTODY OF INTERPOLOTOR | O BOX Y | en |
| EARLIEST PHOTO DATE 1960 | chidge, TN 378 | 931 |
| LATEST PHOTO DATE 1984 Phone No.: | | |

Tennessee Department of Public Health — Division of Solid Waste Management /8 Potential Hazardous Waste Disposal Facility

| BH (BY 10 *** | |
|--------------------|---|
| CILITY ID NO. A | |
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| | 03 SAMPLING DATES |
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| er field data) | |
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| c; | |
| c) O6 STATE | 04 SIC COD |
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| e; | 06 STATE |

Sources of Information for this Report

- 1. Company Operation Files
- 2. Exxon NFRRC, "Preliminary Safety Analysis Report," Docket 50-564, 1975.
- 3. McMaster, W. M., "Geologic Map of the Oak Ridge Reservation, Tennessee,"
 Martin Marietta Energy Systems, Inc., Oak Ridge National Laboratory,
 Health Physics Division, Oak Ridge, Tennessee, 1963.
- 4. McMaster, W. M., "Hydrologic Data for the Oak Ridge Area, Tennessee," U. S. Geological Survey, Water Supply Paper 1839-N, 1967.

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Division of Solid Waste Management

Report on Potential Hazardous Waste Disposal Facility

| PART 1 - FACILITY INFORMATION AND ASSESS | SMENT | - | | | | ILIDENTIF | CATION FACILITY ID NO. |
|--|----------------------|------------------|-----------------|----------------------|--------------------------|--|---------------------------|
| IL FACILITY NAME AND LOCATION | | | | | | | |
| or FACILITY NAME (Legal, common, or descriptive name of sit Y-12 Bone Yard | (•) | | | BOX Y | PECIFIC LOCATIO | N IDENTIFIER | |
| Oak Ridge | | (| OLSTATE TN | 37831 | Anders | on | or COUNTY . |
| | 1 6' 5 | 0" | | | | | |
| OP DIRECTIONS TO FACILITY (Starting from nearest public real Approximately 2.5 miles west or Y-12 Plant. | n Bear Cr | reek l | Road f | rom the m | ain porta | l of the | 2 |
| III. RESPONSIBLE PARTIES | | | | | | | |
| U.S. Department of Energy | | • | 02 STREET P. 0. | Box E | | | • |
| Oak Ridge | | | O4 STATE TN | 37831 | 08 TELEPHONE (615) 57 | | |
| 07 OPERATOR (If known and different from owner) Same as above | | | OS STREET | | | | |
| OS CITY | | | 10 STATE | 11 ZIP CODE | 12 TELEPHONE | NUMBER | |
| 13 TYPE OF OWNERSHIP (Check one) A. PRIVATE D. B. FEDERAL: D. F. OTHER: | U. S. | Agency | | | G. STATE | 0 0. COUNT | Y DE MUNICIPAL |
| 14 FACILITY STATUS (Cheer one) [] A ACTIVE [] B. INACTIVE [] C. UNKNOWN | Approx | | | 7943 BEGINNING YE | | 70 GYEAR | ☐ UNKNOWN |
| IV. NOTIFIER INFORMATION | | | | | | | NE NUMBER |
| OT NOTIFIER NAME (Company name) | P. O. | | | | , | } | 576-0845 |
| U.S. Department of Energy | P. U. | | | 07 COUNTY | | OS DATE | |
| Oak Ridge | TN | 3783 | | Anderso | n | - | 08 / 03 /84 |
| R. L. Sleeman | | | 10 CONTAC | TITLE DOE Env | - Oak Ri ironmenta | dge Oper | rations inator |
| 11 SIC CODE AND DESCRIPTION LISTED | | | _ | | | | |
| | ent Fabr | ıcatı | on | | | | |
| 2819 - Nuclear Weapons Components sales pescalation of production process atems Production of nuclear weapons | PRODUCED, AC | CTIVITIES | | i, ETQ.) | | | |
| 2819 - Nuclear Weapons Compone 12 SAISE DESCRIPTION OF PRODUCTION PROCESS (ITEMS Production of nuclear weapons PART 2 INFORMATION CONCERNING WAST | COMPONER ES DISPOSE | nts nts | INCLUDED | CED FACILII | TY | | |
| 2819 - Nuclear Weapons Componers BAILER DESCRIPTION OF PRODUCTION PROCESS (ITEMS Production of nuclear weapons | COMPONER ES DISPOSE | nts nts | INCLUDED | CED FACILII | .TY | | |
| 2819 - Nuclear Weapons Componers Brief Description of PRODUCTION PROCESS (ITEMS Production of nuclear weapons PART 2. INFORMATION CONCERNING WASTI I. WASTE STATES, QUANTITIES, AND CHARA 11 PHYSICAL STATES (Cheer all their sopir) MA. SOLID B. POWDER, FINES G. G. GAS | COMPONER ES DISPOSE | nts DAT F SAT TI | REFEREN | CED FACILII | ARACTERISTICS | (Check all that Toxic EP Toxic Other_Ura | |

Tennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| | | | | | | | | | I. IDENTIFICATION | ATION | • |
|-----------------------------|--|--|--|-------------|---|---|--|--|--|-----------------------|------------------|
| PART 2 · W | ASTE INFORM | PART 2 - WASTE INFORMATION—continued | | | | | | | OI DISPOSAL FACILITY ID NO | ACILITY ID NO. | |
| MOATAD. | MASTES. | (Reference Hazardous | ZABDOUS WASTES (Balerance Hazardous Waste Regulations for Code Numbers) | r Code Numb | 10.0 | | | | N/A | | · T |
| II. HAZARDOUS WASTE CODE | 02 SUB | 02 SUBSTANCE NAME | 03 SOURCE OF WASTE (Activity Producing Weste) | 5 | ETHOD DC018 Codes | 05 STORAGE/DISPOSAL METHOD (Ref. Process Codes) | 06 AMOUNT DISPOSED PER MONTH | 07 UNIT OF MEASURE | 06 CONCENTRATION AS DISPOSED | 09 UNIT OF MEASURE | |
| 1000 | Spent Solv | Solvents, Metal | Plant Operation | TT | T04 | NA/D80 | Unknown | | NA | AN | • |
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| | | | | | | | | | | | |
| TOTAL QUAN | IIIY OF HAZARDO | TOTAL QUANTITY OF HAZARDOUS WASTE DISPOSED PER MONTH | MONTH = Unknown | | | | | | | | |
| PROCESS CODES: | CODES: | | Code | | Storage: | Code | Disposal: | | epo) | | |
| Trestment: TANK SURFACE IMI | Code Tresiment: TANK SURFACE IMPOUNDMENT 102 INCINERATOR 103 | | OTHER (Use for physical, chemical, T04 therms! or blological trealmen! processes not occuring in tenhs. Paralece Impoundments or inclinestors. Describe the process in the space | | CONTAINER (barret, drum, etc) TANK WASTE PILE SUHFACE IMPOUNDMENT OTHER (Pascriba process in th | n, e(c) \$01 \$02 \$03 NT \$04 8 is in the space \$05 | - | NJECTION WELL LANDFILL LAND APPLICATION OCEAN DISPOSAL SUBFACE IMPOUNDMENT | 870 090 100 100 100 100 100 100 100 100 10 | | |
| | | provided PAI | A1 2411) | 5 d | provided; Parl ? III) | | Distriction of the state of the | Office (Describe process) In space provided; Part 2 III) | - | | |

Tennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

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| | | | | | L IDENTIFIC | CATION | |
|---|---|------------------------|---------------------------------|-------------------------------------|-----------------|----------------------|--------------|
| PART 2—WASTE IN | NFORMATION—Continued | 1 | | | 01 FACILITY I |) NO. /A | |
| III. EXPLANATION OF PR | OCESS CODES, PARTICULARLY | "OTHER" | CODES USED | IN PART 2-II. | | | |
| Metal chips were Remaining residue | placed in burn pans w was covered with com | ith an pacted | ignitable soil. | solvent a | and ignit | ed. | - |
| PART 3—DESCRIP | TIVE INFORMATION | | | | <u> </u> | · | |
| I. FACILITY DESCRIPTIO | N | | | | | | |
| to initiate the b | placed in burn pans i urn. Remaining resid ad been filled, top s | ue was | covered in | ı the trei | nch with | compacted s | soil. |
| | CURITY (FENCING, LIGHTING, ETC.) WHER | E APPLICABI | £ | | | | |
| The facility has | been closed, posted, a | and loc | ated on re | stricted | access g | overnment 1 | and. |
| II. CONTAINMENT | | | | | | | |
| • | king Liners BARRIERS LEACHATE CO ection, liners or trea eve. | - | | | | ose identif | ied |
| III. ACCESSIBILITY | | | | | | | |
| 01 WASTE EASILY ACCESSIBLE 02 COMMENTS | (exposed at surface?): 🔲 YES 💋 NO | • | | | | | |
| PART 4—DEMOGR | APHIC, WATER, AND EN | /IRONM | ENTAL DAT | A | | | |
| I. DEMOGRAPHIC AND P | ROPERTY INFORMATION | | | | | | |
| C: ESTIMATED TOTAL POPULAT | 7ero | within 1 mi. | radius Zero | c | . Na. Employees | Y-12 on site 6000 | Plant ——— |
| a. 20 ft. contoursb. existing roads, built | IC MAP FOR 1 MI. RADIUS OF FACILITY S dings and other major structures les (both groundwater and surface water) | HOWING TH | E FOLLOWING: | - | | | |
| II. GROUNDWATER | | | | | | | |
| 01 GROUNDWATER USE IN VICE A ONLY SOURCE FOR DRINI | | | (Limited | CIAL INDUSTRIA O other sources a | | XO E. NOT USED, L | JNUSEABLE |
| 02 POPULATION WITHIN 1 MI. F | 7000 | | 03 DISTANCE TO | NEAREST DOW | | estimatei | |
| 04 DEPTH TO UPPERMOST AQUIFER 5-20 (ft) | as direction of uppermost Adulfer Flow | % 0EFT 04 C ≥ 20 | 'H TO AQUIFER ONCERN (11) | 07 POTENT | TAL YIELD | 08 SOLE SOUP | |

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Fennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| | | L IDENTIFICATION |
|---|--|--|
| PART 4—WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DAT | · | 01 FACILITY ID NO. N/A |
| II. GROUNDWATER—Continued | | |
| OR DESCRIPTION OF WELLS (Including usage, depth, and location-letitude and ion | nitude—within 1 mi. redius) | |
| Several monitoring and test wells of various this facility. There are no water supply we facility. | s denths are locate | ed within 3000 feet of le radius of this |
| 10 RECHARGE AREA | 11 DISCHARGE AREA | |
| TYPES COMMENTS | CX YES COMMENTS | |
| III. SURFACE WATER | | |
| 01 SURFACE WATER USE (Check one) II A. RESERVOIR. RECREATION DRINKING WATER SOURCE IMPORTANT RESOURCES | LLY C. COMMERCIAL INC | DUSTRIAL & D. NOT CURRENTLY USED |
| oz Potentially Affected Booles of Water NAME: Tributary to Bear Creek Bear Creek | | DISTANCE TO SITE |
| | | |
| IV. ENVIRONMENTAL INFORMATION | | |
| 01 PERMEASILITY OF UNSATURATED ZONE (Check one) | | |
| ☐ A. 10 ⁻¹ 20 10 ⁻¹ cm/sec ☐X 8.10 ⁻¹ 10 10 ⁻¹ cm/sec ☐ | C.10 to 10-15m/sec | DECUMPTON NAME OF THE PROPERTY |
| 02 PERMEABILITY OF SEDROCK (Cheek one) O A IMPERMEABLE DX S. RELATIVELY IMPERMEAS (Less than 10-cm/sec) (10-10-10-10-cm/sec) | BLE C. RELATIVELY PERM | EABLE 0. VERY PERMEABLE (Greater than 10" timeset) |
| CS DEPTH TO BEDROCK OA DEPTH OF CONTAMINATED SOIL ZOIL ZOIL ZOIL ZOIL ZOIL ZOIL ZOIL Z | os soil am 5-7 | _ |
| 25 NET PRECIPITATION/YEAR 27 TEN YEAR 24 HOUR RAINFALL 5.2 | site slope DIRECTION 6 | of site slope terrain average slope < 5 % |
| 29 FLOCO POTENTIAL | 11 DISTANCE TO CRITICAL HA | SITAT Unknown |
| FACILITY IS IN > 100 YEAR FLOOD PLAIN | (at endangered sa | Unknown (mi) |
| 10 DISTANCE TO WETLANDS (5 acre minimum) > 5 (mi) | ENDANGERED SPECIES: | None |
| 12 DESCRIPTION OF FACILITY IN RELATION TO SURROUNDING TOPOGRAPHY | | |
| Facility is located in Bear Creek Valley (Pine Ridge (1,200 feet elevation) and Ches | 910 Feet elevation tnut Ridge (1,100 |) situated between feet elevation). |
| | | |
| · | | • |
| • | | |
| | • | |
| | | |
| | | |
| | | • |
| | | |
| V. PHOTOGRAPHS (Provide copies if readily available) | • | |
| Y-12 | HSEA DIVISION | |
| (Name of a | rganization and individual contact) O. Box Y Ik Ridge, TN 3783 | |
| 03 DATES restimated | | |

Tennessee Department of Public Health — Division of Solid Waste Management Potential Hazardous Waste Disposal Facility

| PART 5-SAMPLE A | ND FIELD INFORM | NOITAN | - | | 01 | PACILITY ID NO. | O. | |
|---|-------------------|-------------------------|---|---|-------------------|-----------------|----------|---|
| | | | | | | | | |
| I. SAMPLES TAKEN | 01 NUMBER OF | 02 BRI | ef Summary of An | NALYTICAL RESULTS | | | | 03 SAMPLING DATES |
| SAMPLE TYPE | SAMPLES TAKEN | | | ion available | upon spe | cific | | - |
| GROUNDWATER | | | | TOIL AVAITABLE | apon spe | | | |
| SURFACE WATER | | req | uest. | | | | | |
| AMBIENT AIR | | | | | | | | |
| METHANE | | | | | | | | |
| RUNOFF | | | | | | | | |
| SOIL | | | | | | | | <u> </u> |
| VEGETATION | | | | | | | | |
| OTHER | | | | | | | | |
| | | | ific reque | | · · · | | | |
| PART 6—OFF-SITE | | FORMATI | on Not a | applicable | • | | | |
| | | FORMATI | on Not a | applicable | ACILITY | | | |
| I. OTHER GENERAL | | FORMATI | on Not a | applicable | ACILITY | | | 02 D + 8 NUMB |
| I. OTHER GENERAT | ORS WITHIN NOT | FORMATI | ON Not a | applicable | | 6. etC) | | |
| I. OTHER GENERAT 01 NAME 03 STREET AODRESS (P.O. | FORS WITHIN NOT | FORMATI | ON Not a | applicable POSING AT THIS F | | | D6 STATE | |
| I. OTHER GENERAT DI NAME DI STREET ADDRESS (P.O.) DIS CITY | FORS WITHIN NOT | TIFIER'S | COMPANY DISP 20+8 NUMBER | applicable POSING AT THIS F | | | D6 STATE | 04 SIC COD 07 ZIP CODE |
| I. OTHER GENERAT OI NAME DISTREET ADDRESS (P.O. DIS CITY | FORS WITHIN NOT | TIFIER'S | COMPANY DISP Z D + 8 NUMBER 04 SIC CODE | applicable POSING AT THIS F O1 NAME O3 STREET ADDRE | 55 (P.O. 80z, RFD | (0 | D6 STATE | 04 SIC COD 07 ZIP CODE 02 D + 8 NUMBE |
| | FORS WITHIN NOT | TIFIER'S | COMPANY DISP 20+8 NUMBER 04 SIC CODE 07 ZIP CODE | applicable POSING AT THIS F 01 NAME 03 STREET ADDRE 03 STREET ADDRE | 55 (P.O. 80z, RFD | 0 4, e(c) | | 02 D + 6 NUMBE |
| I. OTHER GENERAT OI NAME DISTREET ADDRESS (P.O. DIS CITY | Box. AFD #. etc.) | FORMATI 'IFIER'S (02 | COMPANY DISP Z D + 8 NUMBER O4 SIC CODE 17 ZIP CODE 12 D + 8 NUMBER O4 SIC CODE | OSING AT THIS FOR INAME OS STREET ADDRES OS CITY OI NAME | 55 (P.O. 80z, RFD | 0 4, e(c) | | 04 SIC COD 07 ZIP CODE 02 D + 8 NUMBE |

See Attachment 1

Sources of Information for this Report

- 1. Company Operation Files
- 2. Exxon NFRRC, "Preliminary Safety Analysis Report," Docket 50-564, 1975.
- 3. McMaster, W. M., "Geologic Map of the Oak Ridge Reservation, Tennessee," Martin Marietta Energy Systems, Inc., Oak Ridge National Laboratory, Health Physics Division, Oak Ridge, Tennessee, 1963.
- 4. McMaster, W. M., "Hydrologic Data for the Oak Ridge Area, Tennessee,"
 U. S. Geological Survey, Water Supply Paper 1839-N, 1967.

State of Tennessee — Department of Public Health Division of Solid Waste Management

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Report on Potential Hazardous Waste Disposal Facility

| | iei ilezai. | | | | I. IDENTIFICATION |
|---|--|--|---|----------------------|---|
| PART 1 - FACILITY INFORMATION AND ASSESS | MENT | | | | 01 DISPOSAL FACILITY ID NO. |
| | | | | | TN3890090001 |
| I. FACILITY NAME AND LOCATION | | NO STREET | ROUTE NO. OR S | PECIFIC LOCATIO | ON IDENTIFIER |
| 11 FACILITY NAME (Legel, common, or descriptive name of site |) | 1 | Box Y | PEUIPIO EUGATI | |
| Y-12 Plant S-3 Ponds | | 04 STATE | | OS COUNTY | on 29 |
| Oak Ridge | | TN | 37831 | Anders | on 29 |
| 08 COORDINATES 3 5° 5 8' 4 0" 8 4° 1 | 6' 1 0" | · | | | |
| DIRECTIONS TO FACILITY (Starting from nearest public road Located at west end of the Y- Road from the main portal of | 12 Plant. | Approxi | mately 1 | .O mile w | est on Bear Creek |
| III. RESPONSIBLE PARTIES | | | | | |
| 01 OWNER (It known) | | 02 STREET | Box E | | • |
| U. S. Department of Energy | | P. U. | | 06 TELEPHONE | NUMBER |
| Oak Ridge | | TN | 37831 | | 76-0845 |
| 07 OPERATOR (If known and different from owner) | | OS STREET | • | | |
| Same as above | | | | | |
| 09 CITY | | 10 STATE | 11 ZIP CODE | 12 TELEPHON | E NUMBER |
| | | | | () | |
| 13 TYPE OF OWNERSHIP (Check one) | U. S. D. | 0. E. | | C. STATE | D. COUNTY DE MUNICIPAL |
| ₫ F. OTHER: | | ncy name: | | G.UNKNO | WN |
| | (Specify) | RATION | 1057 | l Disco | A-+ |
| 14 FACILITY STATUS (Check one) Z A ACTIVE D B. INACTIVE D C. UNKNOWN | 13 15000 | • | 1951 BEGINNING YE | Pres | NG YEAR UNKNOWN |
| IV. NOTIFIER INFORMATION | | | | | |
| IV. NUTTER INFURMATION | | | | | , |
| OI NOTIFIER NAME (Company name) | 02 STREET OR BOX | K NO. | <u> </u> | | 03 TELEPHONE NUMBER |
| | P. O. Box | x E | | | 1615 576-0845 |
| U.S. Department of Energy | P. O. BOX | X E | 07 COUNTY | Op. | (615 576-0845 OS DATE 08 /03 /84 |
| U.S. Department of Energy | P. O. BOX | x E 521P CODE 7831 | Anders | | 08 / 03 /84 08 DATE 08 / 03 /84 MONTH DAY YEA |
| OI NOTIFIER NAME (Company name) U.S. Department of Energy OACITY Oak Ridge O9 CONTACT NAME | P. O. BOX | x E 521P CODE 7831 | Anders | - Oak R | (615 576-0845 OS DATE 08 /03 /84 MONTH DAY YEAR idge Operations |
| OI NOTIFIER NAME (Company name) U.S. Department of Energy OACITY Oak Ridge OS CONTACT NAME R. L. Sleeman | P. O. BOX | x E 521P CODE 7831 | Anders | - Oak R | 08 / 03 /84 08 DATE 08 / 03 /84 MONTH DAY YEA |
| OI NOTIFIER NAME (Company name) U.S. Department of Energy OACITY Oak Ridge O9 CONTACT NAME | P. 0. Box 05 STATE 06 TN 33 | X E IZIP CODE 7831 | Anders | - Oak R | (615 576-0845 OS DATE 08 /03 /84 MONTH DAY YEAR idge Operations |
| U.S. Department of Energy Oak Ridge O9 CONTACT NAME R. L. Sleeman | P. O. Box costate cos TN 33 | X E SZIP CODE 7831 10 CONTA | Anders | - Oak R | (615 576-0845 OS DATE 08 /03 /84 MONTH DAY YEAR idge Operations |
| OI NOTIFIER NAME (Company name) U.S. Department of Energy OACITY OAK Ridge OP CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 Nuclear Weapon Compone 12 BRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS | P. O. Box osstate os TN 33 | 7837 10 CONTA | Anders | - Oak R | (615 576-0845 OS DATE 08 /03 /84 MONTH DAY YEAR idge Operations |
| OI NOTIFIER NAME (Company name) U.S. Department of Energy OACITY Oak Ridge O9 CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 Nuclear Weapon Compone | P. O. Box osstate os TN 33 | 7837 10 CONTA | Anders | - Oak R | (615 576-0845 OS DATE 08 /03 /84 MONTH DAY YEAR idge Operations |
| OI NOTIFIER NAME (Company name) U.S. Department of Energy OACITY OAK Ridge OP CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 Nuclear Weapon Compone 12 BRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS | P. O. Box osstate os TN 33 | 7837 10 CONTA | Anders | - Oak R | (615 576-0845 OS DATE 08 /03 /84 MONTH DAY YEAR idge Operations |
| OI NOTIFIER NAME (Company name) U.S. Department of Energy OACITY OAK Ridge OP CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 Nuclear Weapon Compone 12 BRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS | P. O. Box osstate os TN 33 | 7837 10 CONTA | Anders | - Oak R | (615 576-0845 OS DATE 08 /03 /84 MONTH DAY YEAR idge Operations |
| OI NOTIFIER NAME (Company name) U.S. Department of Energy OACITY OAK Ridge OP CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 Nuclear Weapon Compone 12 BRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS | P. O. Box contact TN 33 ent Fabrica produced activit component | 7837 10 CONTA | Anders CT TITLE DOE Env | - Oak R ironmenta | (615 576-0845 OS DATE 08 /03 /84 MONTH DAY YEAR idge Operations |
| U.S. Department of Energy OACITY OAK Ridge OS CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 Nuclear Weapon Compone 12 BRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS Production of nuclear weapons | P. O. Box constate control TN 33 ent Fabrica produced activit component | X E SZIP CODE 7831 10 CONTA tion TIES INCLUDE S. | Anders CT TITLE DOE Env D. ETC.) | - Oak R ironmenta | (615 576-0845 OS DATE 08 /03 /84 MONTH DAY YEAR idge Operations |
| U.S. Department of Energy Oak Ridge O3 CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 Nuclear Weapon Compone 12 BRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS Production of nuclear weapons PART 2 INFORMATION CONCERNING WAST I. WASTE STATES, QUANTITIES, AND CHARA O3 BRYSIGAL STATES, QUANTITIES, AND CHARA O4 BRYSIGAL STATES, QUANTITIES, AND CHARA O5 BRYSIGAL STATES, GREEN AND CHARA O5 BRYSIGAL STATES A | P. O. Box contact TN 33 ent Fabrica produced Activit component component component component component | T REFERE | Anders OTTILE DOE Env D. ETC.) | - Oak Rironmenta | (615 576-0845 OS DATE 08 /03 /84 MONTH DAY YEAR idge Operations |
| U.S. Department of Energy Oak Ridge Os Contact Name R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 Nuclear Weapon Compone 12 BRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS Production of nuclear weapons PART 2 INFORMATION CONCERNING WASTI L. WASTE STATES, QUANTITIES, AND CHARA O1 PHYSICAL STATES (Check all that apply) O2 WASTE OIL (Meet all that apply) O3 WASTE OIL (Meet all that apply) | P. O. Box osstate os TN 33 ent Fabrica produced. Activit s component. ES DISPOSED A CTERISTICS AT | T REFERE | Anders OTTILE DOE Env D. ETC.) | - Oak Rironmenta | OS DATE OS DATE OS MONTH DAY YEA idge Operations al Coordinator |
| OI NOTIFIER NAME (Company name) U.S. Department of Energy OAK Ridge O9 CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 Nuclear Weapon Compone 12 BRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS Production of nuclear weapons PART 2 INFORMATION CONCERNING WASTI I. WASTE STATES, QUANTITIES, AND CHARA O1 PHYSICAL STATES (Check all that apply) O2 WASTE OF LIQUID O3. SOLID O4. SOLID O5. SLUDGE G61/yi | P. O. Box costate os TN 33 ent Fabrica produced. Activit component | T REFERE | Anders CT TITLE DOE ENV D. ETC.) NCED FACIL DISPOSAL 03 WASTE C | - Oak Rironmenta | (619 576-0845 OS DATE OS / 03 /84 MONTH DAY YEA idge Operations al Coordinator S(Check all that soaly) |
| OI NOTIFIER NAME (Company name) U.S. Department of Energy OACITY OAK Ridge O9 CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 Nuclear Weapon Compone 12 BRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS Production of nuclear weapons PART 2. INFORMATION CONCERNING WASTI I. WASTE STATES, QUANTITIES, AND CHARA O1 PHYSICAL STATES (Check all lines apply) O2 WASTE OF LIQUID O3. SOLID O3. SOLID O3. GASS Gal/yi | P. O. BOX 05 STATE 05 TN 33 ent Fabrica PRODUCED. ACTIVIT COMPONENT COMPONEN | T REFERE | Anders OT TITLE DOE ENV D. ETC.) NCED FACIL DISPOSAL 03 WASTE C | - Oak Rironmenta | (619 576-0845 OS DATE OS /03 /84 MONTH DAY YEA idge Operations al Coordinator S (Check all that eagly) |

Tennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| | | | | | | | 1. IDENTIFICATION | LION |
|--|---|--|---|--------------------------------|--|--|---------------------------------|-----------------------|
| PART 2 . W. | PART 2 - WASTE INFORMATION—conlinued | | | | | | TN3890001 | CILITY ID NO. |
| II. HAZARD | II. HAZARDOUS WASTES (Reference Hazardous Waste Regulations to the Hazardous of Source of Waste Marchine Waste) | 03 SOURCE OF WASIE OF TOWN A TACHMUS PROGRESSION WASIE MACHINE PROGRESSION WASIE | 04 TREATMENT METHOD | 05 STORAGE/DISPOSAL METHOD | 06 AMOUNT DISPOSED | 07 UNIT OF MEASURE | 08 CONCENTRATION AS DISPOSED | 09 UNIT OF MEASURE |
| WASIE CODE | | | (Ref. Process Codes) | (Ref. Process Codes) | PEH MONIII | | | |
| F006 | Sludges | Plating Operation | T02 | 504/083 | | | | |
| F007 | Plating Bath Soln | - 1 | T02 | 504/083 | 000 | - 1 /M | | |
| F008 | Plating Bath Sludges | Plating Operation | T02 | 504/083 | 000,62 | ua I/MO | | |
| 000 | Corrosive Liquids | Plating Operation | 102 | 504/083 | | | | |
| FOOG | Strinning & Cleaning | Plating Operation | T02 | 504/083 | | | | |
| NA NA | Monwater Containing | | T02 | 504/083 | 42,000 | Gal/Mo | | |
| VA. | | | T02 | S04/D83 | | | <100 | mdd |
| | Rorvillim | | T02 | 504/083 | | | < 50 | mdd |
| | Thorium | | T02 | S04/D83 | | | ٠] | mdd |
| בטטו | Halogenated Solvents | Degreasing & Lab | T02 | S04/D83 | | | | |
| 1001 | Non-Halogenated Solv | •2 | 102 | S04/D83 | Contain | ed in mor | waters and p | ating |
| r003 | Non-Halogenarca 3011. | ~ | T02 | S04/D83 | waste a | _ | timated to be | less |
| 1005 | Non-na logenateu 301V. | 5 | - | | than 1% | of tot | volume | |
| | | | | | | | | |
| | | | | | | | - | • |
| | | | | | | | • | - |
| | | | | • | | | | |
| | NOTE: The process of | neutralizing the conten | onts of the p | sew spud | | | | |
| | | v 1983. Presentl | y solu | which are | | | | |
| | required for ne | zat | lent balance | are added | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| TOTAL QUANT | TOTAL QUANTITY OF HAZARDOUS WASTE DISPOSED PER MONTH == | 1 MONTH = 67,000 Gal/Mo | | | • | | | |
| PROCESS CODES: | CODES: | 47.0 | Storage: | Code | Disposal: | | Code | |
| Trestment: | Code Treatment | | | | , INJECTION WELL | WELL | D70 | |
| TANK SURFACE IMPOUNDMENT INCINERATOR | 101 | OTHER (Use for physical, chemical, 104 thermal or blokogical treatment processes not occurring in lenks, surface impoundments or incinerators. | CONTAINEN Paires, drum, etc) TANK WASTE PILE SUBFACE IMPOUNDMENT OUTER IDescribe process in the space | n, etc) 502 503 NT 504 504 505 | LANDFILL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUND OTHER (Describe pro | LANDFILL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUNDMENT OTHER (Describe process | D60 D81 D82 D83 D84 | |
| | | | | | id ebece bi | ovided; Part 2 III) | - | |

Tennessee Department of Public Health — Division of Solid Waste Management $\mathcal{A}\mathcal{F}$ Report on Potential Hazardous Waste Disposal Facility

| | I. IDENTIFIC | ATION |
|---|---|-------------------------------|
| PART 2—WASTE INFORMATION—Continued | 01 FACILITY ID | 3 |
| | TN38900 | 090001 |
| II. EXPLANATION OF PROCESS CODES, PARTICULARLY "OTHER" CODES USED II | N PART 2-II. | |
| See Attachment 1 | | |
| See Attachment 1 | | |
| - | | |
| | | |
| PART 3—DESCRIPTIVE INFORMATION | | |
| I. FACILITY DESCRIPTION | | |
| OI DESCRIPTION OF METHOD OF OPERATION. CLOSURE COVER. ETC. FACILITY CONSISTS | of four diked co | mpartments, ments. Process |
| of DESCRIPTION OF METHOD OF OPERATION. CLOSURE COVER ETC. Facility consists approximately 200 ft. x 200 ft. x 20 ft. each, unlined, liquids were emptied into the ponds for evaporation/per | colation and neut | ralization. |
| Closure will include the neutralization and solidicati | on of the liquids | in the Basins. |
| Basins will be filled with soil and seeded. 22 CURRENT USE AND SITE SECURITY (FENCING, LIGHTING, ETC.) WHERE APPLICABLE. | | |
| JZ CURRENT USE AND SITE SECURITY (PENCING, LIGHTING, ETG.) WILLIAM | | |
| Facility is fenced, posted, and locked. | | ļ |
| II. CONTAINMENT | | |
| 01 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, LEACH. TE COLLECTION AND TREATMENT SYST | TEMS. ETC | |
| - | | • |
| Surface impoundment. | | |
| • | | |
| III. ACCESSIBILITY | | |
| 01 WASTE EASILY ACCESSIBLE (exposed at surface?): X YES A NO | | |
| 02 COMMENTS | | |
| Surface impoundment, neutralization ponds. | | |
| PART 4—DEMOGRAPHIC, WATER, AND ENVIRONMENTAL DATA | 4 | |
| | | |
| | | |
| I. DEMOGRAPHIC AND PROPERTY INFORMATION | | V 10 Plant |
| CT ESTIMATED TOTAL POPULATION: | | Y-12 Plant |
| | C. No. Employees | 6 000 |
| CT ESTIMATED TOTAL POPULATION: A Residents within 12 mi. radius Zero B. Residents within 1 mi, radius Zero CZ PROVIDE USGS TOPOGRAPHIC MAP FOR 1 MI. RADIUS OF FACILITY SHOWING THE FOLLOWING: | C. No. Employees | 6 000 |
| CT ESTIMATED TOTAL POPULATION: A Residents within 12 mil radius Zero B. Residents within 1 mil radius Zero | C. Na. Employees | 6 000 |
| C1 ESTIMATED TOTAL POPULATION: A Residents within 12 mi. radius Zero B. Residents within 1 mi, radius Zero C2 PROVIDE USGS TOPOGRAPHIC MAP FOR 1 MI. RADIUS OF FACILITY SHOWING THE FOLLOWING: a. 20 ft. contours D. existing roads, buildings and other major structures | C. No. Employees | 6 000 |
| CT ESTIMATED TOTAL POPULATION: A Residents within 1/2 mil radius Zero B. Residents within 1/2 mil radius Zero CZ PROVIDE USGS TOPOGRAPHIC MAP FOR 1 MI. RADIUS OF FACILITY SHOWING THE FOLLOWING: a. 20 ft. contours D. existing roads, buildings and other major structures C. drinking water interes (both groundwater and surface water) II. GROUNDWATER CI GROUNDWATER USE IN VICINITY (Check as applicable) | | on site 6,000 |
| 22 PROVIDE USGS TOPOGRAPHIC MAP FOR 1 MI. RADIUS OF FACILITY SHOWING THE FOLLOWING: a. 20 ft. contours b. existing roads, buildings and other major structures c. drinking water interes (both groundwater and surface water) II. GROUNDWATER 11. GROUNDWATER 12. ONLY SOURCE FOR DRINKING 13. DRINKING 14. ONLY SOURCE FOR DRINKING 15. COMMERCIAL INDUSTRIAL IRRIGATION | C. No. Employees | 6 000 |
| 22 POPULATION WITHIN 1 MI. RADIUS OF FACILITY 23 POPULATION WITHIN 1 MI. RADIUS OF FACILITY SHOWING THE FOLLOWING: 24 Residents within 1 mi, radius Zero 25 RESIDENTS WITHIN 1 mi, radius Zero 26 RESIDENTS WITHIN 1 mi, radius Zero 27 RESIDENTS WITHIN 1 mi, radius Zero 28 Residents within 1 mi, radius Zero 29 RESIDENTS WITHIN 1 mi, radius Zero 20 RESIDENTS WITHIN 1 mi, radius Of Facility 30 DISTANCE TO | IIAL INDUSTRIAL IRRIGATION other sources available) | on site 6,000 |
| C1: ESTIMATED TOTAL POPULATION: A Residents within 12 mi. radius Zero B. Residents within 1 mi, radius Zero C2 PROVIDE USGS TOPOGRAPHIC MAP FOR 1 Mi. RADIUS OF FACILITY SHOWING THE FOLLOWING: a. 20 lt. contours D. existing roads, buildings and other major structures C. drinking water interes (both groundwater and surface water) II. GROUNDWATER C1 GROUNDWATER C2 ROUNDWATER C3 ROUNDWATER USE IN VICINITY (Check as applicable) C4 ONLY SOURCE FOR DRINKING C6 COMMERCIAL INDUSTRIAL IRRIGATION (No other water sources available) | IIAL INDUSTRIAL IRRIGATION other sources available) | on site 6,000 |

Tennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| | | | LIDENTIF | CATION |
|---|-----------------------------|---------------------|---|---|
| part 4—water, demographic, and environmental data | 4 | | 01 FACILITY IS |) NO. |
| | · . | | TN38900 | 090001 |
| II. GROUNDWATER—Continued | | | | • |
| II. GROUNDWATER—Continued 19 DESCRIPTION OF WELLS (Including usage, depth, and location—latitude and longi | tude—within ? | mi. rediust | | |
| Several monitoring and test wells for various are no drinking water wells within a 1-mile | ous dept | hs are loca | ted in the | e area. There |
| | 11 DISCHA | AGE AREA | | |
| COULD flow into Bear Creek | X YES | COMMENTS F | lowing sp ownstream | ring ≃300 yds. · |
| III. SURFACE WATER | | | | |
| AT SURFACE WATER USE (Check one) | | | va | D. NOT CURRENTLY USES |
| A. RESERVOIR. RECREATION DRINKING WATER SOURCE IMPORTANT RESOURCES | LY E C. C | OMMERCIAL INDU | STRIAL A | D. NOT CORRENTE: USE |
| 02 POTENTIALLY AFFECTED BODIES OF WATER | | | | |
| NAME: | | • | | DISTANCE TO SITE |
| Bear Creek - intermittent stream | | | | <u>:() . () 2</u> (mi) |
| East Fork Poplar Creek | | | _ = | 6.0 (mil) |
| East Fork Poblar Greek | | | | |
| IV. ENVIRONMENTAL INFORMATION | | | -1 | |
| OT PERMEABILITY OF UNSATURATED ZONE (Check one) | | | | |
| □ A, 10-10 10-10m/sec | ;.10 to 10- 'c r | rvsec 🛘 D. GRE | ATER THAN 10-10 | m/sec |
| 02 PERMEABILITY OF BEDROCK (Check one) | | | | - |
| A IMPERMEABLE S & RELATIVELY IMPERMEAB | LE 0.0 | RELATIVELY PERME | ABLE 0. (Greeter thi | VERY PERMEABLE on 10 ^{m2} cm/sect |
| | | OS SOIL OM | | |
| CA DEPTH TO SEDROCK OA DEPTH OF CONTAMINATED SOIL 20N UN KNOWN | • | 1-6 | - | |
| OS NET PRECIPITATION/YEAR 07 TEN YEAR 24 HOUR RAINFALL 08 | SITE SLOPE | DIRECTION OF | | TERRAIN AVERAGE SLOPE |
| 54.45 (in) 5.2 (in) | < 5 <u>"</u> | Wes | <u>t </u> | <u>< 5</u> % |
| | 11 DISTAN | CE TO CRITICAL HABI | TAT | |
| OSFLOOD POTENTIAL TVA Flood Control Area | | (of endangered spec | 1 (() (() () () () | <u> </u> |
| - AGG11 19 III | ENDAN | GERED SPECIES: | None | |
| | 2.102.11 | | | |
| 12 DESCRIPTION OF FACILITY IN RELATION TO SURROUNDING TOPOGRAPHY | | _ | | |
| Facility is located in Bear Creek Valley (| 910 ft. | elevation) | situated | between Pine |
| Ridge (1,200 ft. elevation) and Chestnut R | idge (1 | ,100 ft. ele | vation). | |
| | | | | |
| | | | | |
| • | | | | • |
| | | | | |
| | | | • | |
| | | | | |
| | | | | |
| | | | | - |
| | | | | <u> </u> |
| V. PHOTOGRAPHS (Provide copies if readily available) | ECEA III | VISION | | |
| 01 TYPE E GROUND TARRIAL 02 IN CUSTODY OF Y-12 | HSEA U1 | V 15 1011 | | |
| Acarese: | O. Box | 1 | | |
| EARLIEST PHOTO DATE 1970 | k Krage | , 111 3/031 | | |
| ATEST PHOTO DATE 1984 | | | | |

| | • | • | | |
|-----------|---------------|----------------|--------------------|-----------------------|
| • | | 4 Bublic Healt | h — Division of Si | did Waste Management |
| Tennessee | Department of | I Public Healt | 1 - Division C. C. | olid Waste Management |
| | Bosonsial | Hazardous | Waste Dispos | al Facility |
| | | TALAIUUUS | 11 6010 D.OP | |

| PART S—SAMPLE AND I. SAMPLES TAKEN SAMPLE TYPE GROUNDWATER SURFACE WATER | OT NUMBER OF SAMPLES TAKES | | | | 01 FACILITY ID NO. TN3890090001 | |
|--|-------------------------------|----------|----------------------|------------------------------------|------------------------------------|----------------------|
| I. SAMPLES TAKEN SAMPLE TYPE GROUNDWATER | 01 NUMBER OF | | | | TN3890090001 | |
| SAMPLE TYPE GROUNDWATER | 01 NUMBER OF SAMPLES TAKES | 1 | | | | |
| SAMPLE TYPE GROUNDWATER | 01 NUMBER OF SAMPLES TAKES | 1 | | | | |
| GROUNDWATER | Grane | , CZ 5 | RIEF SUMMARY OF AN | ALYTICAL RESULTS | | OS SAMPLING DATES |
| 200000000000000000000000000000000000000 | | | me informati | on available upo | n specific reque | st. |
| | | | | | | |
| AMBIENT AIR | | | | | | |
| METHANE | | | • | , | · | |
| RUNOFF | | | | | | |
| SOIL | | | | | • | • |
| VEGETATION | | | | | | |
| OTMER | | | | | | |
| | ACLUSOTED (| 3 annida | lield messuremen | ts and narrative descript | ion of other field data) | |
| • | | | | | | |
| PART 6—OFF-SITE G | ENERATOR IN | FORMAT | TION | | | - |
| | | ricienie | COMBANY DISP | osing at this facilit | Υ | |
| | S WITHIN NO | | 02 D + 8 NUMBER | I DI NAME | | 02 D + 8 NUMBER |
| 01 NAME | | | | ORGDP | | |
| ORAU | 950 # esc 1 | | 04 SIC CODE | CS STREET AODRESS (P.O. 8 | lox, AFD #. etc) | 04 SIC CODE |
| U. S. Dept. of | | | 7391 | U. S. Dept | . of Energy | 2819/739 |
| 05 CITY | | TN TO | 07 ZIP CODE 37831 | Oak Ridge | OS STATE | 37831 |
| Oak Ridge | | | 02 D + 8 NUMBER | 01 NAME | | 02 D + 8 NUMBER |
| ORNL | | | | | | |
| 3 STREET AODRESS (P.O. Boz. | AFO 8. etc.) | | 04 SIC CODE | 03 STREET AODRESS (P.O. 8 | lox, AFD #. etc) | 04 SIC CODE |
| U. S. Dept. of | Energy | | 7391 | | I CA STAT | E 07 ZIP CODE |
| osciiy Oak Ridge | | OS STATE | 07 ZIP CODE 37831 | OS CITY | | |
| | | | | | | |
| | | | | | | |
| PART 7-SOURCES | F INFORMATI | ON FOR | THIS REPORT | ite specific references, e.g., com | pany liles, sample analysis, res | |

ATTACHMENT 1

Additional Comments to Report on Hazardous Waste Disposal Facility - Y-12 S-3 Ponds, U. S. Department of Energy.

Supplementary Comments for Parts 2 and 3.

The impoundment ponds (4) were constructed in 1951 for percolation and evaporation of nitric acid waste and other liquid wastes generated by chemical extraction process for uranium. The ponds were also used for inorganic streams associated with plating and pickling operations as wellas waters associated with floor cleaning. These liquid wastes have contained concentrations of substances primarily listed in Part 2, Section II, including certain RCRA-listed hazardous organic liquids and uranium, thorium, and beryllium. In 1976, an in-plant bio-denitrification facility was started for recovery and recycle of part of the nitric acid and other nitrates.

The process of neutralizinng the contents of the ponds was initiated in May 1973. Only solutions which are required for neutralization and nutrient balance are added to the ponds. Since March 1984, the remaining process streams are being collected, sampled, and transported to ORGDP for treatment.

ATTACHMENT 2

Sources of Information for this Report

- 1. Company Operation Files
- 2. Exxon NFRRC, "Preliminary Safety Analysis Report," Docket 50-564, 1975.
- 3. McMaster, W. M., "Geologic Map of the Oak Ridge Reservation, Tennessee,"
 Martin Marietta Energy Systems, Inc., Oak Ridge National Laboratory,
 Health Physics Division, Oak Ridge, Tennessee, 1963.
- 4. McMaster, W. M., "Hydrologic Data for the Oak Ridge Area, Tennessee," U. S. Geological Survey, Water Supply Paper 1839-N, 1967.

33

Division of Solid Waste Management

Report on Potential Hazardous Waste Disposal Facility

| | | | | | | | | FICATION | |
|---|--------------------------|--------------|------------------|-------------|----------------|-------------------|--------------------|---|-------|
| PART 1 - FACILITY INFORMATION AND | assessmen | IT | | | | | 01 DISPOS | AL FACILITY ID NO. NA | |
| IL FACILITY NAME AND LOCATION | | | | | | | | | |
| 01 FACILITY NAME (Legal, common, or descriptive no | ame of site) | | | | ROUTE NO. OR S | PECIFIC LOCAT | TON IDENTIFIE | ia. | |
| Y-12 Waste Oil Landfarm | | · - | | | BOX Y | 06 COUNTY | | 07 COUNTY | · |
| as crry | | | | OM STATE | 37831 | Ander | Son | of COUNTY |) |
| Oak Ridge | LONGI | TUDE | | 111 | 3700: | / | | | |
| 3 5° 5 8' 1 4" | 8_4°_1 | 7' _0_ | 5" | | | | | | |
| Approximately 2.5 miles we Plant. | public road) st on Be | ar Cre | ek l | Road fr | om the m | ain port | al of th | ne Y-12 | |
| III. RESPONSIBLE PARTIES | | | | | | | | • | |
| 01 OWNER (If known) | | | | 02 STREET | Box E | | | • | |
| U.S. Department of Energy | у | | | P. U. | 05 ZIP CODE | 06 TELEPHOI | NE NUMBER | | |
| Oak Ridge | | | | TN | 37831 | (615) 5 | 76-0845 | | |
| 07 OPERATOR (If known and different from owner) | | | | OS STREET | | | | | |
| Same as above | | | | | | , | | | |
| OS CITY | | | | 10 STATE | 11 ZIP CODE | 12 TELEPHO | REMUN EN | | |
| 13 TYPE OF OWNERSHIP (Check one) | | | n | <u> </u> | <u> </u> | | | INTY DEMUNI | CIBAL |
| 13 TYPE OF OWNERSHIP (CREEK ONE) | DERAL | <u>U. S.</u> | | y namer | | C. STATE | | INTY L E MUNI | CIPAL |
| C F. OTHER: | | (Séecif) | 7) | | | G.UNKN | OWN . | | |
| | 15 | YEARS OF | | ATION | 1973 | 1 10 | 982 | _ | |
| 14 FACILITY STATUS (Check one) 14 ACTIVE B B INACTIVE C C UI | NKNOWN | | _ | - | BEGINNING Y | | DING YEAR | _ G UNK | 10WN |
| IV. NOTIFIER INFORMATION | | | | | | | | | |
| 01 NOTIFIER NAME (Company name) | 022 | STREET OF | 80X | NQ. | | | 1 | PHONE NUMBER | |
| U.S. Department of Energ | у | P. O. | | | | | | 15 576-0845 | |
| 04 CITY | • } | STATE | • | | 07 COUNTY | | OS DATE | 8 / 3 | / 84 |
| Oak Ridge | | TN | 378 | | Anderso | | 2:1 2- | MONTH DAY | YEA |
| R. L. Sleeman | • | | | 10 CONTAC | Env | - Oak /ironmen | kidge U tal Coo | perations rdinator | |
| 11 SIC CODE AND DESCRIPTION LISTED | | | | | | | | | |
| 2819 - Nuclear Weapons C | component | Fabri | icat | ion | | | | | |
| 12 SRIEF DESCRIPTION OF PRODUCTION PROCE | ess (Items PRC | DUCED. AC | TIVITI | ES INCLUDE | D. ETC.) | | | | |
| Production of nuclear we | anone co | mnoner | 1+5 | | | | | | |
| production of nuclear we | Sahous co | unporter | : 63 | | | • | | | |
| | • | | | | | • | | • | • |
| | | | | | | | | | |
| PART 2 INFORMATION CONCERNING | G WASTES D | DISPOSE | D AT | REFERE | NCED FACIL | ILTY | - | | |
| I. WASTE STATES, QUANTITIES, AND | | | | | | | | | |
| | WASTE QUANT | | | | Y | HARACTERIST | ICS (Check all | that 400/VI | |
| OI PHISICAL STATES (CHEEK SIII INST SERVI) | (Measure | es of waste | quanti nganti | | | nable | M Taxic | | |
| | al/yr 📉 | | 000 | ^ | i ⊑ingn | | | | |
| TI C SLUDGE II G. GAS | u 1/ y 1 | 50 | ·UU | <u>U</u> | | activa | EP Toxic | | |
| D C. SLUDGE D G. GAS | OR CUBIC YA | ADS | .000 | <u> </u> | • | ective | EP Toxic | | |
| C. SLUDGE C. GAS | | ADS | ,000 | U | • | active rrosive | Other | | |

Tennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| | | • | | | | | | | I. IDENTIFICATION | LTION | |
|--|--|--|---|---|--|---|--|--|----------------------------|--------------------|---|
| PART 2 · W. | PART 2. WASTE INFORMATION—conlinued | Continued | | | | | | | 01 DISPOSAL FACILITY ID NO | CILITY ID NO. | |
| II. HAZARD | II. HAZARDOUS WASTES (Reference Hazardous Waste Regulations fo | nce Hezerdou | s Waste Regulations | for Code Numbers) | | | - | 30 | | An titust oc | • |
| HAZARDOUS WASTE CODE | 02 SUBSTANCE NAME | NAME | gg SOURCE OF WASTE (Activity Producing Waste) | | REATMENT 4ETHOD 10cess Codes) | 05 STORAGE/DISPOSAL METHOD (Ref. Process Codes) | E o E | O7 UNIT OF MEASURE | DISPOSE | MEASURE | |
| F002 | Waste Oil and | | Machining Opera | tions | T04 | 081 | 8,000 | Ga] . | 85% - 011 | 89 % | • |
| | Machine Coolants | ints | | | | | | | . | Q | |
| | contaminated with: | with: | | | | | | | Contaminant | l eve 1s | • |
| *************************************** | Bervllium Com | Compounds | | | | | | | ≈50 | mg/mgn | , , , , |
| | | | | | | | , | | <100 | mD/diD | |
| | Uranium-depleted | ted | | | | | | max | 001/ | mg/mgr | , |
| | | | | | | | | avg | 0.7 | III JIII JIII JIII | , |
| | | - | | | | | | | × 2 × | mg/\mathcal{k} | , - , |
| | PCB | | | | | | | | | | |
| | Tetrachloroethvlene | hvlene | | | - | | | | < 5 ** | % | |
| | | 200 | | | - | | | | ** [| 6 | |
| | 1,1,1-Trichlo | -Trichloroethane | | | | | | | | وا | |
| | | | | | | | | | | - | _ |
| | | ŀ | | | - 1 | | | | | | _ |
| | *Prior to 1981 | 1978, oils 1, oils wer | were not sample re sampled for | ed tor Pu chlorina | ed solvent | and were res | tricted | o 3% of | chlorinated s | olvents. | 1 1 |
| | | | | | | | | | | | |
| | | | | | | | | | | | T |
| | | | | | | | | | | | 1 |
| | | | | | | | | | | | П |
| | | | | | | | | | | | |
| | | BEG DESCRIPTION | 000 | /M2 | th vian boall) | during warm months | the) | | | | |
| TOTAL QUAN | TOTAL QUANTITY OF HAZAHDOUS WASTE DISTOSCO I EN | E DISTOSES E | 0,000 | | 7 110 | Sill ill in the line | 7 | | | | |
| PROCESS CODES: | CODES: | Treetment | | • | Storage: | • | Disposal: | | Code | | |
| TANK SURFACE IMPOUNDMENT INCINERATOR | 101 POUNDMENT 102 IR 103 | OTHER (Use I thermal or bit processes no surface Important Describe the provided PAF | OTHER (Use for physical, chemical, thermal or biological treatment processes not occurting in lends, surface impoundments or inclinerators. Describe the process in the space provided PARI 2.11) | 104 174 179 179 179 179 179 179 179 179 179 179 | CONTAINER (berref, drum, etc) TANK WASTE PILE SURFACE IMPOUNDMENT OTHER (Describe process in the space | n, efc) 501 502 11 504 1 in the space 505 | LANDFILL LAND APPLICATION CCEAN DISPOSAL SURFACE IMPOUND OTHER (Describe pri | LANDFILL LANDFILL LANDAPLICATION OCEAN DISPOSAL SURFACE IMPOUNDMENT OTHER (Describe process in space provided; Pail 2 III) | . D83 586 | | |
| | | | | | | | | | | | 1 |

Tennessee Department of Public Health — Division of Solid Waste Management 35 Report on Potential Hazardous Waste Disposal Facility

| перог | Coll i Otolitica i i and | • | | | | |
|--|--|-------------------------------|--|------------------------------|---|---------------------------------------|
| | | | | | I. IDENTIFICAT | |
| PART 2-WASTE INF | ORMATION—Continued | • | • | | 01 FACILITY ID NO |) . |
| | | | _ | • | NA | |
| | ess codes, particularly "C | THER" C | DDES USED IN | PART 2-II. | | |
| is facility was a d coolants. Wast | treatment process us e oils and coolants w ed to a tanker, and t esult from the machini | ed for vere sto then sp | biological ored in dru read over t | degra | dation of W tanks at a | vaste oils nother plant atment. |
| ART 3—DESCRIPTIV | E INFORMATION | | | | | · · · · · · · · · · · · · · · · · · · |
| FACILITY DESCRIPTION | | | | | | |
| ste oils were ap | premation closume covem etc. plied to soil plots di ted approximately 3 to applied immediately be | uring d imes p efore o | ry months er week du r followin | (April- ring se g peri | -October) o easonal ope ods of prec | f the year. rations. ipitation. |
| CURRENT USE AND SITE SECUE | ITY (FENCING. LIGHTING. ETC.) WHERE | APPLICABLE. | | | | |
| ne area is posted | and on restricted ac | cess go | vernment 1 | and. | | |
| . CONTAINMENT | | . | | | | |
| DESCRIPTION OF DRUMS. DIKING THE COLLECTE ON THE COLLECTE ON THE COLLECTE OF T | ng liners barriers leachate collect in drums and tanks in earthen dike. No l | prior iners | to landfarm or collect | ning. ion sys | The storage tems were u | e area was used at the |
| . ACCESSIBILITY | | | | | | |
| COMMENTS | on top of soil plots. | | | | | |
| | PHIC, WATER, AND ENV | IRONME | NTAL DATA | \ | | |
| | | | | • | | |
| . DEMOGRAPHIC AND PF | | | | | | Y-12 Plant |
| : ESTIMATED TOTAL POPULATION | | | Zero | | C. No. Employees | on site 6000 |
| A Residents within 's mi. radius. | | within 1 mi. r | | | | |
| a. 20 ft. contours | C MAP FOR 1 Mt. RADIUS OF FACILITY St lings and other major structures es (both groundwater and surface water) | HOWING THE | FOLLOWING: | | | |
| II. GROUNDWATER | | | | | | |
| 01 GROUNDWATER USE IN VICIN | | L IRRIGATION | (Limited | other source | | E. NOT USED, UNUSEA |
| 02 POPULATION WITHIN 1 MI. R | | | 03 DISTANCE TO | | > 5 (mil (| estimatei |
| WHICH IS SERVED BY GROUND 04 DEPTH TO UPPERMOST AQUIFER | 05 DIRECTION OF UPPERMOST AQUIFER FLOW SOUTH | 06 DEP OF C >20 | TH TO AQUIFER ONCERN | 67 PO1 | TENTIAL YIELD AQUIFER GPII (gpd) | 08 SOLE SOURCE AGU |
| 5-20 m | | | | | | |

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| | LIDENTIFICATION |
|--|--|
| part 4—water, demographic, and environmental data | 01 FACILITY IO NO. |
| | NA |
| I. GROUNDWATER—Continued | |
| 9 DESCRIPTION OF WELLS (Including usage, depth, and location-latitude and longit | ude-within 1 mt. radius: |
| Several monitoring and test wells of various Pine Ridge and Chestnut Ridge. There are no radius of this facility. | depths in Bear Creek valley between drinking water wells within a l-mile |
| IQ RECHARGE AREA | 11 DISCHARGE AREA |
| M YES I COMMENTS Surface drainage would | YES COMMENTS Flowing spring within 50 ft. area. |
| no flow into Bear Creek. | D NO 50 ft. area. |
| II. SURFACE WATER | |
| 1 SURFACE WATER USE (Check one) | Y 🗖 C. COMMERCIAL INDUSTRIAL 💢 D. NOT CURRENTLY USED |
| A. RESERVOIR. RECREATION B. IRRIGATION, ECONOMICALI DRINKING WATER SOURCE IMPORTANT RESOURCES | T C. COMMERCIAL INCOCK |
| 2 POTENTIALLY AFFECTED SODIES OF WATER | |
| NAME: | DISTANCE TO SITE = 0.02 |
| Tributary to Bear Creek | (mi) |
| Poan (rook) | ≃0.20ma |
| Bear Creek | |
| IV. ENVIRONMENTAL INFORMATION | |
| PERMEABILITY OF UNSATURATED ZONE (Check one) | |
| ☐ A, 10~10 10~10m/sec X☐ 8.10~10 10~10m/sec ☐ ☐ G | .10" to 10"cm/sec |
| 02 PERMEABILITY OF BEDROCK (Cheek one) | - |
| | O DELATIVELY PERMEABLE O O VERY PERMEABLE |
| | LE LA PELATIVEES PARTICIPANT AND ADMINISTRATION OF THE PERSON OF THE PER |
| (Lass than 10 cm/sec) (10 to 10 cm/sec) | (Greater than 10" cm/sec) |
| 33 DEPTH TO SEDROCK 04 DEPTH OF CONTAMINATED SOIL ZON | (Greeter than 10" cm/sec) |
| 03 DEPTH TO BEDROCK 04 DEPTH OF CONTAMINATED SOIL ZON: < 20 (m) | (Greeter than 10" cm/sec) 8 SOIL on 5-7 |
| CLOSE INON 10 CHIRSCI (10 to 10 CHIRSC) CI DEPTH TO SEDROCK CO (III) CO DEPTH OF CONTAMINATED SOIL ZON: (III) CO NET PRECIPITATIONYEAR CO TEN YEAR 24 HOUR RAINFALL CO (III) CO NET PRECIPITATIONYEAR CO TEN YEAR 24 HOUR RAINFALL CO (III) | Greater than 10" cm/sec) E 05 SOIL SM 5-7 SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE |
| CLASS INSN 10 CHIRSCI (10 to 10 CHIRSC) CI DEPTH TO SEDROCK C 20 (m) (ID TO 10 CHIRSC) (10 to 10 CHIRSC) (10 to 10 CHIRSC) (10 to 10 CHIRSC) (10 to 10 CHIRSC) | (Greater than 10" cm/sec) 8 SOIL on 5-7 TERRAIN AVERAGE SLOPE |
| Class inen 10 cm/sec (10 to 10 cm/sec) | OS SOIL SM 5-7 SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE <5 % SOUTH <5 % |
| CLOSE INSO 10 CHIESE) CLOSE INSO 10 CHIESE INSO 10 CHIESE) CLOSE INSO 10 CHIESE INSO 10 CHIESE CLOSE INSO 10 CHIESE INSO 1 | OS SOIL GM 5-7 SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE <5 % SOUTH <5 % 11 DISTANCE TO CRITICAL HABITAT (of endangered species) Unknown (mi) |
| CLOSE INSET TO CHIRSCI CONTROL CONTROL C | OS SOIL SM 5-7 SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE <5 % SOUTH <5 % |
| (Less inen 10 cm/sec) (10 to 10 cm/sec) 33 DEPTH TO BEDROCK | OS SOIL PM 5-7 SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE <5 % South < 5 % 11 DISTANCE TO CRITICAL HABITAT (of endangered species) Unknown (mil) |
| (Less inen 10 cmrsec) (10 to 10 cmrsec) 33 DEPTH TO SEDROCK 20 (m) 36 NET PRECIPITATIONYEAR 54.45 (in) 37 TEN YEAR 24 HOUR RAINFALL 59 FLOOD POTENTIAL FACILITY IS IN >100 YEAR FLOOD PLAIN 10 DISTANCE TO WETLANDS (5 acre minimum) 5 June 10 cmrsec) (10 to 10 cmrsec) | OS SOIL SM 5-7 SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE <5 % South < 5 % 11 DISTANCE TO CRITICAL HABITAT (of endangered species) Unknown (mi) ENDANGERED SPECIES: None |
| (Less Inen 10 cm/sec) (10 16 10 cm/sec) (20 (m) (m) (m) (m) (10 16 10 cm/sec) (m) (m) (m) (m) (m) (m) (m) (| OS SOIL PM 5-7 SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE <5 % South <5 % 11 DISTANCE TO CRITICAL HABITAT (of endangered species) Unknown (mil) ENDANGERED SPECIES: None |
| (Less inen 10 cm/sec) (10 to 10 cm/sec) OI DEPTH TO BEDROCK < 20 (m) (m) (m) ON NET PRECIPITATION/YEAR OF TEN YEAR 24 HOUR RAINFALL OB 54.45 (in) OF FLOOD POTENTIAL TVA FLOOD CONTROL Area FACILITY IS IN >100 YEAR FLOOD PLAIN 10 DISTANCE TO WETLANDS (5 scre minimum) > 5 (ini) | OS SOIL SM 5-7 SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE <5 % South <5 % 11 DISTANCE TO CRITICAL HABITAT (of endangered species) Unknown (mi) ENDANGERED SPECIES: None |
| CONTRACT OF FACILITY IN RELATION TO SURROUNDING TOPOGRAPHY (10 to 10 cm/sec) (10 to 10 | OS SOIL SM 5-7 SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE <5 % South <5 % 11 DISTANCE TO CRITICAL HABITAT (of endangered species) Unknown (mi) ENDANGERED SPECIES: None |
| (Less than 10 chrise) (10 to 10 chrise) (20 | OS SOIL SM 5-7 SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE <5 % South <5 % 11 DISTANCE TO CRITICAL HABITAT (of endangered species) Unknown (mi) ENDANGERED SPECIES: None |
| (Less than 10 chrise) (10 to 10 chrise) (20 | OS SOIL BM 5-7 SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE <5 % South <5 % 11 DISTANCE TO CRITICAL HABITAT (of endangered species) Unknown (mil) ENDANGERED SPECIES: None |
| CONTRACT OF FACILITY IN RELATION TO SURROUNDING TOPOGRAPHY (10 to 10 cm/sec) (10 to 10 | OS SOIL SM 5-7 SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE <5 % South <5 % 11 DISTANCE TO CRITICAL HABITAT (of endangered species) Unknown (mi) ENDANGERED SPECIES: None |
| CONSTRUCT OF FACILITY IN RELATION TO SURROUNDING TOPOGRAPHY (10 to 10 cm/sec) | OS SOIL SM 5-7 SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE <5 % South <5 % 11 DISTANCE TO CRITICAL HABITAT (of endangered species) Unknown (mi) ENDANGERED SPECIES: None |
| (Less inen 10 cmreet) (10 to 10 cmreet) 33 DEPTH TO SEDROCK 20 (m) 34 DEPTH OF CONTAMINATED SOIL ZONI (m) 35 NET PRECIPITATION/YEAR 37 TEN YEAR 24 HOUR RAINFALL 38 FLOOD POTENTIAL 10 DISTANCE TO WETLANDS IS ACRE MINIMUM) 12 DESCRIPTION OF FACILITY IN RELATION TO SURROUNDING TOPOGRAPHY 13 DESCRIPTION OF FACILITY IN RELATION TO SURROUNDING TOPOGRAPHY | OS SOIL SM 5-7 SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE <5 % South <5 % 11 DISTANCE TO CRITICAL HABITAT (of endangered species) Unknown (mi) ENDANGERED SPECIES: None |
| (Less inen 10 cmreet) (10 to 10 cmreet) 33 DEPTH TO SEDROCK 20 (m) 34 DEPTH OF CONTAMINATED SOIL ZONI (m) 35 NET PRECIPITATION/YEAR 37 TEN YEAR 24 HOUR RAINFALL 38 FLOOD POTENTIAL 10 DISTANCE TO WETLANDS IS ACRE MINIMUM) 12 DESCRIPTION OF FACILITY IN RELATION TO SURROUNDING TOPOGRAPHY 13 DESCRIPTION OF FACILITY IN RELATION TO SURROUNDING TOPOGRAPHY | OS SOIL SM 5-7 SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE <5 % South <5 % 11 DISTANCE TO CRITICAL HABITAT (of endangered species) Unknown (mi) ENDANGERED SPECIES: None |
| (Less than 10 chrise) (10 to 10 chrise) (20 | OS SOIL SM 5-7 SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE <5 % South <5 % 11 DISTANCE TO CRITICAL HABITAT (of endangered species) Unknown (mi) ENDANGERED SPECIES: None |
| CLESS INEA 10-CM/SEC: (10-10-10-CM/SEC) CLESS INEA 10-CM/SEC: (10-10-10-CM/SEC) CLESS INEA 10-CM/SEC: (10-10-10-CM/SEC) CLESS INEA 10-CM/SEC: (10-10-10-CM/SEC) CLESS INEA 10-CM/SEC: (10-10-CM/SEC) CLESS INEA 10-CM/SEC: (10-CM/SEC) CLESS INEA 10 | OS SOIL SM 5-7 SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE <5 % South <5 % 11 DISTANCE TO CRITICAL HABITAT (of endangered species) Unknown (mi) ENDANGERED SPECIES: None |
| CLESS THEN 10 CONTENTSC) CD DEPTH TO SEDROCK CO DEPTH OF CONTAMINATED SOIL ZONI CONTENTS OF TEN YEAR 24 HOUR RAINFALL CONTENTS OF T | SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE SOUTH SOUTH 11 DISTANCE TO CRITICAL HABITAT (of endangered species) Unknown ENDANGERED SPECIES: None 10 ft. elevation) situated between Pine idge (1,100 ft. elevation). |
| CLESS INSM 10 CEMPSEC) CLESS | SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE SOUTH |
| CLOSE THEN TO BEDROCK 20 (M) CONTROL OF CONTAMINATED SOIL ZONI CONTROL OF CONTROL OF CONTROL OF CONTROL CONTROL OF CONTROL CONTROL OF CONTAMINATED SOIL ZONI CONTROL OF CONTROL | (10-1010-zmisec) (Greeter than 10-zmisec) E |

Tennessee Department of Public Health — Division of Solid Waste Management Potential Hazardous Waste Disposal Facility

| | | | | | | NTIFICATION | |
|---|---|---------------|---|---|-------------------------------|-----------------|--|
| ART 5-SAMPLE | AND FIELD INFORM | MOITAN | • | | 01 FA | CILITY ID NO. | NA |
| | | | | | | | |
| SAMPLES TAKEN | | | | TIGAL DESIGN TP | | | 03 SAMPLING DATES |
| AMPLE TYPE | 01 NUMBER OF SAMPLES TAKEN | | rief Summary of Analy | | | | DATES |
| ROUNDWATER | | Son | me information | availabl | e upon spec | ific | |
| SURFACE WATER | | | quest. | | | | |
| AMBIENT AIR | | | | | | | |
| METHANE | | | | | | | |
| RUNOFF | | | | | | | |
| SOIL | | | | | • | | |
| | | | | | | | |
| VEGETATION | | | | | | | |
| THER | | | lield measurements | and percetive | iescription of ot | her field data) | |
| Information | available up | | ecific request | · · · · · · · · · · · · · · · · · · · | . • | · | • |
| | TE GENERATOR IN | | | | | | · · · · · · - |
| PART 5—OFF-SI | TE GENERATOR IN | FORMA" | TION | | FACILITY | | |
| PART 5—OFF-SI | TE GENERATOR IN | FORMA' | | | FACILITY | | 02 D + 8 NUMBE |
| PART 5—OFF-SITOTHER GENERAL ORNL | TE GENERATOR INI ATORS WITHIN NO | FORMA' | TION COMPANY DISPOS 02 D + 8 NUMBER 04 SIC CODE | ING AT THIS | FACILITY ESSIP.O. Box. RFD 4. | etc) | 02 D + 8 NUMSE |
| PART 6—OFF-SITOTHER GENERAL NAME ORNL STREET ADDRESS (P. U. S. Dept. | TE GENERATOR IN | FORMA' | TION COMPANY DISPOS 02 D + 8 NUMBER | ING AT THIS | | erc) | |
| PART 6—OFF-SITOTHER GENERAL NAME ORNL STREET ADDRESS (P. U. S. Dept. | TE GENERATOR IN | FORMA' | COMPANY DISPOS 02 D+8 NUMBER 04 SIC CODE 7391 07 ZIP CODE 37831 | ING AT THIS 01 NAME 03 STREET ADDR | | | 04 SIC COD |
| PART 5—OFF-SITOTHER GENERAL ORNL STREET ADDRESS (P) U. S. Dept. CITY Oak Ridge | TE GENERATOR IN | FORMATIFIER'S | COMPANY DISPOS 02 D + 8 NUMBER 04 SIC CODE 7391 07 ZIP CODE | ING AT THIS 01 NAME 03 STREET ADDR | | | 04 SIC COD |
| PART 5—OFF-SITOTHER GENERAL ORNL STREET ADDRESS (P) U. S. Dept. CITY Oak Ridge NAME ORGDP | TE GENERATOR INITATORS WITHIN NOT D. Box. AFD 8. etc.) Of Energy | FORMATIFIER'S | COMPANY DISPOS 02 D+8 NUMBER 04 SIC CODE 7391 07 ZIP CODE 37831 | OS STREET ADDR | | 06 STATE | 04 SIC COD 07 ZIP CODE 02 D + 8 NUMBS |
| PART 5—OFF-SITOTHER GENERAL ORNL STREET ADDRESS (P) U. S. Dept. CITY Oak Ridge NAME ORGDP | TE GENERATOR IN | FORMATIFIER'S | TION COMPANY DISPOS C2 D+8 NUMBER C4 SIC CODE 7391 C7 ZIP CODE 37831 C2 D+8 NUMBER | OS STREET ADDR | ESS (P.O. Box, AFD 4. (| 06 STATE | 04 SIC COD 07 ZIP CODE 02 D + 8 NUMBE |
| PART 5—OFF-SITOTHER GENERAL NAME ORNL STREET ADDRESS (P. C. T. Y. Oak Ridge ORGDP STREET ADDRESS (P. C. T. Y. Oak Ridge Oak Ridge Oak Ridge | TE GENERATOR INITIATORS WITHIN NOT O. Box. AFO 8. etc.) Of Energy O. Box. AFD 8. etc.) | FORMATIFIER'S | O4 SIC CODE 37831 04 SIC CODE 37831 02 D + 8 NUMBER | OS CITY OS CITY OS CITY OS CITY OS CITY | ESS (P.O. Box, AFD & . | os STATE | 04 SIC CODE 02 D + 8 NUMBE 04 SIC COD 07 ZIP CODE |

Sources of Information for this Report

- 1. Company Operation Files
- 2. Exxon NFRRC, "Preliminary Safety Analysis Report," Docket 50-564, 1975.
- 3. McMaster, W. M., "Geologic Map of the Oak Ridge Reservation, Tennessee,"
 Martin Marietta Energy Systems, Inc., Oak Ridge National Laboratory,
 Health Physics Division, Oak Ridge, Tennessee, 1963.
- 4. McMaster, W. M., "Hydrologic Data for the Oak Ridge Area, Tennessee," U. S. Geological Survey, Water Supply Paper 1839-N, 1967.

Division of Solid Waste Management

Report on Potential Hazardous Waste Disposal Facility

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| | местир е 1_Z'0_3 | P. O. CASTATE TN | Box Y oszipcode 37831 | PECIFIC LOCATION OS COUNTY Anders | N/A NIDENTIFIER | FACILITY ID NO. |
|---|--|------------------------------|-----------------------|-----------------------------------|---------------------|------------------|
| Y-12 Sanitary Landfill I SCITY Oak Ridge Se COORDINATES LATITUDE 3 5° 58' 10" 8 4° 1000 Approximately 2.5 miles west on EPlant. | <u> </u> | 02 STREET, P. O. 04 STATE TN | Box Y oszipcode 37831 | & COUNTY Anders | on | CODE |
| Y-12 Sanitary Landfill I SCITY Oak Ridge Se COORDINATES LATITUDE 3 5° 58' 10" 8 4° 1000 Approximately 2.5 miles west on EPlant. | <u> </u> | P. O. CASTATE TN | Box Y oszipcode 37831 | & COUNTY Anders | on | CODE |
| Oak Ridge Oak Ridge DE COORDINATES 3 5° 5 8' 1 0" 8 4° 1 DESCRIPTIONS TO FACILITY (Starting from nearest public road) Approximately 2.5 miles west on E Plant. | <u> </u> | O4 STATE TN | 37831 | Anders | | CODE |
| Oak Ridge CS COORDINATES LATITUDE LON 3 5° 5 8' 1 0" 8 4°] CS DIRECTIONS TO FACILITY (Starting from nearest public road) Approximately 2.5 miles west on Explant. | <u> </u> | TN | 37831 | Anders | | CODE |
| 25 COORDINATES LATITUDE 3 5° 5 8' 1 0" 8 4° 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | <u> </u> | 11 | | | | |
| 3 5° 5 8' 1 0" 8 4° 1 3 3 5° 5 8' 1 0" 8 4° 1 3 3 5° 5 8' 1 0" 8 4° 1 3 3 5° 5 8' 1 0" 8 4° 1 0" 8 4° 1 0" 8 8° 1 0" 8 8° | <u> </u> | | om the m | | | <u> </u> |
| Approximately 2.5 miles west on E Plant. | Bear Cree | k Road fr | om the m | | | |
| III. RESPONSIBLE PARTIES | | | | ain porta | of the | Y-12 |
| | • | | | | | |
| 01 OWNER (If known) | | 02 STREET | | | | |
| U.S. Department of Energy | _ | P. 0. | Box E | | | • |
| osciiv Oak Ridge | | 04 STATE TN | 37831 | 06 TELEPHONE (615) 57 | | |
| | | OS STREET | | <u></u> | | |
| or operator (if known and different from owner) Same as above | | | | | | |
| Same as above | | 10 STATE | 11 ZIP CODE | 12 TELEPHONE | NUMBER | |
| OS CITY | | 1.00.2.10 | 11 22 3333 | () | | · |
| 13 TYPE OF OWNERSHIP (Check one) | U. S. D |). O. E. | | C C STATE | © D. COUN | TY DE MUNICIPAL |
| © F. OTHER: | (Specity) | | | | | |
| 14 FACILITY STATUS (Check one) | 15 YEARS OF C | PERATION | 1968 | 198 | 3 | □ UNKNOWN |
| □ A ACTIVE \$ 8. INACTIVE □ C. UNKNOWN | | | BEGINNING Y | AR ENDIN | G YEAR | |
| IV. NOTIFIER INFORMATION | | | | | | |
| OT NOTIFIER NAME (Company name) | 02 STREET OR E | BOX NO. | | | 03 TELEPH | ONE NUMBER |
| U.S. Department of Energy | P. O. E | Box E | | | (615 | <u> 576-0845</u> |
| 04 CITY . | 05 STATE | 06 ZIP CODE | 07 COUNTY | | 08 DATE | 08 / 03 / 8 |
| Oak Ridge | TN 3 | 37831 | Anderso | on | | MONTH DAY YE |
| | | 10 CONTAI | CT TITLE DOI | - Oak Ri | dae Ope | rations |
| R. L. Sleeman | | | Env | vironmenta | 1 Coord | inator |
| 11 SIC CODE AND DESCRIPTION LISTED | | | | | | |
| 2819 - Nuclear Weapons Componer | nt Fabric | cation | | | | |
| 12 BRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS P | | | D. ETC.) | | | |
| 12 BRIEF DESCRIPTION OF PRODUCTION PROCESS (1. Same | | | | | | |
| B | component | ts | | | | |
| Production of nuclear weapons | | | | | - | |
| Production of nuclear weapons | | | , | | | |
| Production of nuclear weapons | | | • | | • | |
| Production of nuclear weapons. | | | • | | | |
| | S DISPOSED | AT REFERE | NCED FACIL | JLTY | · | |
| PART 2 INFORMATION CONCERNING WASTE | | | | ILTY | | |
| PART 2 INFORMATION CONCERNING WASTE | CTERISTICS | | DISPOSAL | | S (Check all th | Dž 480/Y) |
| PART 2 INFORMATION CONCERNING WASTE I. WASTE STATES, QUANTITIES, AND CHARAC O1 PHYSICAL STATES (Check all lines apply) O2 WASTE QUANTITIES | ANTITY AT SITE | AT TIME OF | 03 WASTE O | HARACTERISTICS | | BE ADDIY) |
| PART 2 INFORMATION CONCERNING WASTED. I. WASTE STATES, QUANTITIES, AND CHARACTED (Check all lines apply) A. SOLID B. POWDER, FINES OF SILVERY D. B. POWDER, FINES | ANTITY AT SITE Sures of waste quantity be independent | AT TIME OF | 03 WASTE C | HARACTERISTICS | Texic | BI 400/Y) |
| PART 2 INFORMATION CONCERNING WASTED. I. WASTE STATES, QUANTITIES, AND CHARACTED (Check all Inst apply) A. SOLID B. POWOER, FINES C. SLUDGE C. SLUDGE OR CUBIC | ANTITY AT SITE sures of waste dimust be independ tons / 10 | AT TIME OF | 03 WASTE C | HARACTERISTICS | Texic EFTexic Inc | |
| PART 2. INFORMATION CONCERNING WASTE: I. WASTE STATES, QUANTITIES, AND CHARACT O1 PHYSICAL STATES (Check all lines appry) A. SOLID O E SLURRY O G. SLUDGE O C. SLUDGE O | ANTITY AT SITE sures of waste dimust be independ tons / .0 | AT TIME OF | 03 WASTE C | HARACTERISTICS | Texic | |

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Tennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| | | | | | | | | | I I IDENTIFICATION | VIION |
|--|--------------|---|---|---|---|---|--|--|---------------------------------|-----------------------|
| PART 2 - W/ | STE INFO | PART 2 - WASTE INFORMATION continued | ntinued | | | | | | 01 DISPOSAL FACILITY ID NO | CHITY ID NO. |
| II. HAZARDO | US WAST | ES (Reference | Hazardous | II. HAZARDOUS WASTES (Reference Hazardous Waste Regulations for Code | for Code Numbers) | | | | N/A | |
| DI HAZARDOUS WASTE CODE | 05 | 02 SUBSTANCE NAME | | 03 SOURCE OF WASTE (Activity Producing Waste) | 04 TREATMENT METHOD (Ref. Process Codes) | 05 STORAGE/DISPOSAL METHOD (Ref. Process Codes) | 06 AMOUNT DISPOSED PER MONTH | 07 UNIT OF MEASURE | 08 CONCENTRATION AS DISPOSED | 09 UNIT OF MEASURE |
| N/A | Sanitary | y Refuse* | | Plant Operations | N/A | NA /D80 | 585 | Ton/Mo | NA | NA |
| | *Prior | to 1976, W | waste c | composition was control | olled administ | ratively to e | | emicals | | |
| | hazarde | hazardous materials fo | als fo | on of | e equipment | operator at t n of trenches | le site. No rec | Records ords of | were used properties | marily nical |
| | disposal | are | available | 101 | ing in 1976, | Jab | oth | er hazar | ater | |
| | were sent to | | hazard | ous chemical dispo | area and rec | ords indic | th15 pra | ctice. | rior to 1979 has been | |
| | there are | 2 2 | ع. اح | the achestos nit | dspestos Insu | ונמרוטווי אווו | עו | 42052 | | |
| | 1101107 | | • | 20252000 | | | | | | |
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| TOTAL QUANTI | IY OF HAZAR | TOTAL QUANTITY OF HAZARDOUS WASTE DISPOSED PER MONTH | OSED PER A | = 585 ton/mo | (approximately) | | | | | |
| PROCESS CODES | | | | Code | Storage: | Code | Disposal: | | Code | |
| Trestment: | | | | | CONTAINER (barrel, drum, etc) | | INJECTION WELL | WELL | 920 | |
| TANK SURFACE IMPOUNDMENT INCINERATOR | DUNDMENT | 101 102 103 104 104 104 104 104 104 104 104 104 104 | INERIUSE for ermal or blok ocesses not i riface Impour sscribe the pr | Otherwises or property, responsible the interment of bloogical treatment themselves and occurring in tanks, surface impoundments or inclinateloss. Describe the process in the space consistency before 2 tills and 2 tills. | TANK WASTE PILE WASTE PILE SURFACE IMPOUNDMENT OTHER IDESCRIBE process in the space | 502 503 11 5 in the spece 505 | LANDFILL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUND | LANDFILL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUNDMENT OTHER (Describe process | 084 083 084 084 | |
| | | | | | | | In space pr | In space provided; Part 2 NI) | | |

4/

Tennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| | | | I. IDEN | TIFICATION |
|--|---|--|---|---------------------------------------|
| DART 2-WASTE IN | FORMATION—Continued | | | JTY 10 NO. |
| PART 2-WAGIE III | | • | | N/A |
| | | OTHER CODES USED II | N PART 2-II. | |
| I. EXPLANATION OF PRO | CESS CODES, PARTICULARLY " | OTHER CODES COLD | | |
| | | | | · 7 |
| • | | | | • |
| | - | | | |
| | | | | |
| | TO SHATION | | | · |
| PART 3-DESCRIPT | IVE INFORMATION | | | |
| L FACILITY DESCRIPTION | | | | |
| | COSERATION CLOSURE COVER, ETC. | | | • |
| | والمنافية والمعاري والمنافية | n refuse. Refuse | was compacte | d with a rubber- |
| trenches were exc | covered daily. Finish | ned trenches were | covered with | 3 feet of soil |
| and seeded. | COACICA ARTIST TITLES | | | |
| | urity (fencing, lighting, etc.) where | APPLICABLE. | | |
| | | | • | mmont land |
| Facility is inact | tive, posted, and loca | ted on restricted | d access gover | n approved by TDHE |
| | | | | |
| (Ref. Document Y/ | IA-160 Closure Plan fo | r Y-12 Centralize | ed Landfill 1) | |
| (Ref. Document Y/ | IA-160 Closure Plan Lo | r 1-12 Centraliza | Danat III | |
| (Ref. Document Y/ | IA-160 Closure Plan fo | r 1-12 Centraliza | Danat III | |
| (Ref. Document Y/ | IA-160 Closure Plan Lo | LECTION AND TREATMENT SYS | TEMS. ETC | |
| (Ref. Document Y/ | IA-160 Closure Plan Lo | LECTION AND TREATMENT SYS | TEMS. ETC | |
| (Ref. Document Y/ | IA-160 Closure Plan Lo | LECTION AND TREATMENT SYS | TEMS. ETC | |
| (Ref. Document Y/ | IA-160 Closure Plan Lo | LECTION AND TREATMENT SYS | TEMS. ETC | |
| (Ref. Document Y/ II. CONTAINMENT O1 DESCRIPTION OF DRUMS. DII NO containment, O III. ACCESSIBILITY | IA-160 Closure Plan to KING. LINERS. BARRIERS. LEACHATE COL Collection, or treatme | LECTION AND TREATMENT SYS | TEMS. ETC | |
| (Ref. Document Y/ II. CONTAINMENT O1 DESCRIPTION OF DRUMS. DI NO CONTAINMENT, O III. ACCESSIBILITY O1 WASTE EASILY ACCESSIBLE | IA-160 Closure Plan Lo | LECTION AND TREATMENT SYS | TEMS. ETC | |
| (Ref. Document Y/ II. CONTAINMENT OI DESCRIPTION OF DRUMS. DII NO CONTAINMENT, III. ACCESSIBILITY OI WASTE EASILY ACCESSIBLE OZ COMMENTS | IA-160 Closure Plan Lo KING. LINERS. BARRIERS. LEACHATE COL Collection, or treatme (exposed at surface?): | LECTION AND TREATMENT SYS | TEMS. ETC | |
| (Ref. Document Y/ II. CONTAINMENT 01 DESCRIPTION OF DRUMS. DI NO CONTAINMENT, O III. ACCESSIBILITY 01 WASTE EASILY ACCESSIBLE 02 COMMENTS Finished trenche | IA-160 Closure Plan to KING. LINERS. BARRIERS. LEACHATE COLI Collection, or treatme (exposed at surface?): | LECTION AND TREATMENT SYS | TEMS. ETC | |
| (Ref. Document Y/ II. CONTAINMENT 01 DESCRIPTION OF DRUMS. DI NO CONTAINMENT, O III. ACCESSIBILITY 01 WASTE EASILY ACCESSIBLE 02 COMMENTS Finished trenche | IA-160 Closure Plan Lo KING. LINERS. BARRIERS. LEACHATE COL Collection, or treatme (exposed at surface?): | LECTION AND TREATMENT SYS | TEMS. ETC | |
| (Ref. Document Y/ II. CONTAINMENT OI DESCRIPTION OF DRUMS, DII NO CONTAINMENT, III. ACCESSIBILITY OI WASTE EASILY ACCESSIBLE OZ COMMENTS Finished trenche PART 4—DEMOGR | IA-160 Closure Plan to KING. LINERS. BARRIERS. LEACHATE COL- Collection, or treatme (exposed at surface?): | LECTION AND TREATMENT SYS | TEMS. ETC | |
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| (Ref. Document Y/ II. CONTAINMENT OI DESCRIPTION OF DRUMS, DII NO CONTAINMENT, III. ACCESSIBILITY OI WASTE EASILY ACCESSIBLE OZ COMMENTS Finished trenche PART 4—DEMOGR | IA-160 Closure Plan to KING. LINERS. BARRIERS. LEACHATE COLI Collection, or treatme (exposed at surface?): | cover. | TEMS. ETC | Y-12 Plan |
| (Ref. Document Y/ II. CONTAINMENT OI DESCRIPTION OF DRUMS, DIE NO CONTAINMENT, III. ACCESSIBILITY OI WASTE EASILY ACCESSIBLE OZ COMMENTS Finished trenche PART 4—DEMOGRA I. DEMOGRAPHIC AND E C: ESTIMATED TOTAL POPULA A Residents within 12 mi. radius | IA-160 Closure Plan to KING. LINERS. BARRIERS. LEACHATE COL COllection, or treatme Texposed at surface?: Pres XNO S have 3 feet of soil APHIC, WATER, AND ENV PROPERTY INFORMATION TION: S Zero B. Residents | LECTION AND TREATMENT SYS INT SYSTEMS WERE COVER. ZIRONMENTAL DAT Swittin 1 mi. radius Zero | TEMS. ETC | Y-12 Plan |
| (Ref. Document Y/ II. CONTAINMENT OI DESCRIPTION OF DRUMS, DII NO CONTAINMENT, III. ACCESSIBILITY OI WASTE EASILY ACCESSIBLE OZ COMMENTS FINISHED TOTAL POPULA A Residents within "2 mi. radius OZ PROVIDE USGS TOPOGRAPP | IA-160 Closure Plan to KING. LINERS. BARRIERS. LEACHATE COL COllection, or treatme (exposed at surface?): | LECTION AND TREATMENT SYS INT SYSTEMS WERE COVER. ZIRONMENTAL DAT Swittin 1 mi. radius Zero | TEMS. ETC | Y-12 Plan |
| (Ref. Document Y/ II. CONTAINMENT O1 DESCRIPTION OF DRUMS, DID NO CONTAINMENT, III. ACCESSIBILITY O1 WASTE EASILY ACCESSIBLE O2 COMMENTS Finished trenche PART 4—DEMOGRAPHIC AND F C1 ESTIMATED TOTAL POPULA A Residents within 1/2 mi. radius C2 PROVIDE USGS TOPOGRAPH a. 20 ft. contours C existing roads. Did C3 PROVIDE USGS TOPOGRAPH C4 ESTIMATED TOPOGRAPH C5 ESTIMATED TOPOGRAPH C6 ESTIMATED TOPOGRAPH C7 ESTIMATED TOPOGRAPH C8 ESTIMATED TOPOGRAPH C8 ESTIMATED TOPOGRAPH C9 ESTIMATED TOPOGRAPH C8 ESTIMATED TOPOGRAPH C8 ESTIMATED TOPOGRAPH C9 ESTIMATED TOPOGR | IA-160 Closure Plan to KING. LINERS. BARRIERS. LEACHATE COLI COllection, or treatme (exposed at surface?): | LECTION AND TREATMENT SYS INT SYSTEMS WERE COVER. ZIRONMENTAL DAT Swittin 1 mi. radius Zero | TEMS. ETC | Y-12 Plansoloyees on site_ 6000 |
| (Ref. Document Y/ II. CONTAINMENT O1 DESCRIPTION OF DRUMS, DID NO CONTAINMENT, III. ACCESSIBILITY O1 WASTE EASILY ACCESSIBLE O2 COMMENTS Finished trenche PART 4—DEMOGRAPHIC AND F C1 ESTIMATED TOTAL POPULA A Residents within 1/2 mi. radius C2 PROVIDE USGS TOPOGRAPH a. 20 ft. contours C existing roads. Did C3 PROVIDE USGS TOPOGRAPH C4 ESTIMATED TOPOGRAPH C5 ESTIMATED TOPOGRAPH C6 ESTIMATED TOPOGRAPH C7 ESTIMATED TOPOGRAPH C8 ESTIMATED TOPOGRAPH C8 ESTIMATED TOPOGRAPH C9 ESTIMATED TOPOGRAPH C8 ESTIMATED TOPOGRAPH C8 ESTIMATED TOPOGRAPH C9 ESTIMATED TOPOGR | IA-160 Closure Plan to KING. LINERS. BARRIERS. LEACHATE COL COllection, or treatme Texposed at surface?: Pres XNO S have 3 feet of soil APHIC, WATER, AND ENV PROPERTY INFORMATION TION: S Zero B. Residents | LECTION AND TREATMENT SYS INT SYSTEMS WERE COVER. ZIRONMENTAL DAT Swittin 1 mi. radius Zero | TEMS. ETC | Y-12 Plan |
| (Ref. Document Y/ II. CONTAINMENT O1 DESCRIPTION OF DRUMS, DID NO CONTAINMENT, III. ACCESSIBILITY O1 WASTE EASILY ACCESSIBLE O2 COMMENTS Finished trenche PART 4—DEMOGRA I. DEMOGRAPHIC AND F C1 ESTIMATED TOTAL POPULA A Residents within 12 mi. radius O2 PROVIDE USGS TOPOGRAPH a. 20 ft. contours D. existing roads. Du C. drinning water into II. GROUNDWATER | IA-160 Closure Plan to KING. LINERS. BARRIERS. LEACHATE COLI Collection, or treatme (exposed at surface?): | LECTION AND TREATMENT SYS INT SYSTEMS WERE COVER. ZIRONMENTAL DAT Swittin 1 mi. radius Zero | TEMS. ETC | Y-12 Plant bloyees on site_6000 |
| (Ref. Document Y/ II. CONTAINMENT OI DESCRIPTION OF DRUMS, DII NO CONTAINMENT, III. ACCESSIBILITY OI WASTE EASILY ACCESSIBLE OZ COMMENTS Finished trenche PART 4—DEMOGRA I. DEMOGRAPHIC AND F C: ESTIMATED TOTAL POPULA A Residents within '2 mi. radiu OZ PROVIDE USGS TOPOGRAPH a. 20 ft. contours D. existing roads. Du C. dfinning water into | IA-160 Closure Plan to KING. LINERS. BARRIERS. LEACHATE COLI COllection, or treatme (exposed at surface?): | LECTION AND TREATMENT SYS INT SYSTEMS WERE COVER. C | TEMS. ETC. USed. C. No. Em | Y-12 Plantologues on site_6000 |
| (Ref. Document Y/ II. CONTAINMENT O1 DESCRIPTION OF DRUMS, DID NO CONTAINMENT, III. ACCESSIBILITY O1 WASTE EASILY ACCESSIBLE O2 COMMENTS Finished trenche PART 4—DEMOGRA I. DEMOGRAPHIC AND F C1 ESTIMATED TOTAL POPULA A Residents within 12 mi. radius O2 PROVIDE USGS TOPOGRAPH a. 20 ft. contours D. existing roads. Du C. drinning water into II. GROUNDWATER | IA-160 CIOSUTE PIAN IO KING. LINERS. BARRIERS. LEACHATE COL COllection, or treatme (exposed at surface?): | COVER. COVER. | TEMS. ETC | Y-12 Plan bloyees on site_6000 |
| (Ref. Document Y/ II. CONTAINMENT OI DESCRIPTION OF DRUMS, DII NO CONTAINMENT, III. ACCESSIBILITY OI WASTE EASILY ACCESSIBLE OZ COMMENTS FINISHED TOTAL POPULA A RESIDENTS TOTAL POPULA A RESIDENTS WITHIN TO THE FABRE OZ PROVIDE USGS TOPOGRAPH a. 20 ft. contours D. existing roads, Dur. C. drinning water into II. GROUNDWATER OI GROUNDWATER | IA-160 CIOSUTE PIAN IO KING. LINERS. BARRIERS. LEACHATE COLI COllection, or treatme (exposed at surface?): | COVER. COVER. | TEMS. ETC. USed. C. No. Em | Y-12 Plan bloyees on site_6000 |
| (Ref. Document Y/ II. CONTAINMENT O1 DESCRIPTION OF DRUMS, DII NO CONTAINMENT; O1 WASTE EASILY ACCESSIBLE O2 COMMENTS Finished trenche PART 4—DEMOGRA I. DEMOGRAPHIC AND F C1 ESTIMATED TOTAL POPULA A Residents within "2 mil radiu O2 PROVIDE USGS TOPOGRAPH a. 20 ft. contours D. existing roads, Dui C. drinning water inter II. GROUNDWATER O1 GROUNDWATER O1 GROUNDWATER O1 GROUNDWATER USE IN VICE ONLY SOURCE FOR DRIN | IA-160 CIOSUTE PIAN LO KING. LINERS. BARRIERS. LEACHATE COLI COLLECTION, OR TREATME (exposed at surface?): | COVER. COVER. | TEMS. ETC. USed. C. No. Em | Y-12 Plan bloyees on site_6000 |
| (Ref. Document Y/ II. CONTAINMENT O1 DESCRIPTION OF DRUMS, DII NO CONTAINMENT; O1 WASTE EASILY ACCESSIBLE O2 COMMENTS Finished trenche PART 4—DEMOGRA I. DEMOGRAPHIC AND F C1 ESTIMATED TOTAL POPULA A Residents within "2 mil radiu O2 PROVIDE USGS TOPOGRAPH a. 20 ft. contours C. drinning water inte II. GROUNDWATER O1 GROUNDWATER O1 GROUNDWATER O2 POPULATION WITHIN 1 MIL O2 POPULATION WITHIN 1 MIL | IA-160 CIOSUTE PIAN LO KING. LINERS. BARRIERS. LEACHATE COLI COllection, or treatme (exposed at surface?): | COVER. COVER. | TEMS. ETC. US ed . C. No. Em CIAL INDUSTRIAL IRRIGHO OTHER SOURCES EVENIABLE | Y-12 Plan bloyees on site_6000 ATION |
| (Ref. Document Y/ II. CONTAINMENT O1 DESCRIPTION OF DRUMS, DII NO CONTAINMENT; O1 WASTE EASILY ACCESSIBLE O2 COMMENTS Finished trenche PART 4—DEMOGRA I. DEMOGRAPHIC AND F C1 ESTIMATED TOTAL POPULA A Residents within "2 mil radiu O2 PROVIDE USGS TOPOGRAPH a. 20 ft. contours D. existing roads, Dui C. drinning water inter II. GROUNDWATER O1 GROUNDWATER O1 GROUNDWATER O1 GROUNDWATER USE IN VICE ONLY SOURCE FOR DRIN | IA-160 CIOSUTE PIAN LO KING. LINERS. BARRIERS. LEACHATE COLI COllection, or treatme (exposed at surface?): | COVER. COVER. | TEMS. ETC. US ed . C. No. Em CIAL INDUSTRIAL IRRIGHO OTHER SOURCES EVENIABLE | Y-12 Plantologees on site_6000 |

Fennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

42

| | | I. IDENTIFICATION |
|---|--|--|
| PART 4—WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA | | 01 FACILITY ID NO. |
| A COMMONIATED Continued | | |
| II. GROUNDWATER—Continued | · · · · · · · · · · · · · · · · · · · | |
| Several monitoring and test wells of various There are no water supply wells within a l-m | depths are located | in Bear Creek Valley. site. |
| 10 RECHARGE AREA | 11 DISCHARGE AREA | |
| p yes COMMENTS Surface water would drain into Bear Creek | | rings have been reported the area. |
| III. SURFACE WATER | | |
| 01 SURFACE WATER USE (Check one) C. A. RESERVOIR, RECREATION DRINKING WATER SOURCE DRINKING WATER SOURCE B. IRRIGATION, ECONOMICALL IMPORTANT RESOURCES | Y C. COMMERCIAL INDUS | TRIAL Ç D. NOT CURRENTLY USED |
| 02 POTENTIALLY AFFECTED BODIES OF WATER | | 1 |
| NAME: | | DISTANCE TO SITE |
| Tributary to Bear Creek | | ≃0.02 (mi) |
| Bear Creek | | |
| | | /mti |
| | | |
| IV. ENVIRONMENTAL INFORMATION | | |
| OT PERMEABILITY OF UNSATURATED ZONE (Check one) | ABOUT 18 ABO | TER THAN 10-100/sec |
| ☐ A. 10 10 10 cm/sec | 10-10 10-cm/sec Q D. GREA | THE LEWIS IN STREET |
| 02 PERMEABILITY OF BEDROCK (Check one) © A IMPERMEABLE | E D'C. RELATIVELY PERMEAI | BLE D. VERY PERMEABLE (Greater than 10-/cm/sec) |
| CA DEPTH TO BEDROCK CA DEPTH OF CONTAMINATED SOIL ZONE UNKNOWN | 05 SOIL pM 5-7 | • |
| THE MET PRECIPITATION TO THE TOTAL THE TANK THE | SITE SLOPE DIRECTION OF S | SITE SLOPE TERRAIN AVERAGE SLOPE < 5 |
| OS FLOOD POTENTIAL TVA Flood Control Area YEAR FLOOD PLAIN | 11 DISTANCE TO CRITICAL HABITA | linknoun. |
| | enalmeses eseèles. | None |
| 10 DISTANCE TO WETLANDS (5 acre minimum) >5 (mil) | ENDANGERED SPECIES: | |
| 12 DESCRIPTION OF FACILITY IN RELATION TO SURROUNDING TOPOGRAPHY Facility is located in Bear Creek Valley (9 Pine Ridge (1,200 feet elevation) and Chest | 10 ⁻ feet elevation) : nut Ridge (1,100 fe | situated between et elevation). |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| V. PHOTOGRAPHS (Provide copies if readily available) | | |
| Y - 12 | SEA DIVISION | |
| OF TYPE C GROUND & AERIAL OF IN CUSTOUT OF | anization and individual contact) | |
| | O Box Y Ridge, TN 37831 | |

Tennessee Department of Public Health — Division of Solid Waste Management Potential Hazardous Waste Disposal Facility

| PARI S-SAMPLE | | | | • | N/ | Α | _ |
|--|--|--------------|---|--|-------------------|-------------|--|
| PART G-GAME Date | and field inform | | <u> </u> | | | | |
| SAMPLES TAKEN | | | | | | | |
| SAMPLE TYPE | 01 NUMBER OF | 02 8 | RIEF SUMMARY OF ANAL | YTICAL RESULTS | | | 03 SAMPLING DATES |
| GROUNDWATER | SAMPLES TAKEN | | me informatio | n available upo | n specific | | |
| | | | | | | | |
| SURFACE WATER | · | re | quest. | | | | |
| AMBIENT AIR | | | | | | | |
| METHANE | | | | | | | |
| RUNOFF | | | | | | | |
| SOIL | | | | | | | • |
| VEGETATION | | | | | | | |
| OTHER | | | | | | | |
| | ATA COLLECTED (P | rovide | ield measurements | and narrative descript | tion of other fle | id data) | |
| Information | available upo | n spe | ecific request | :. | <u>.</u> | | |
| PART 6—OFF-SIT | E GENERATOR INF | ORMAT | TION | | | | |
| PART 6—OFF-SIT | E GENERATOR INF | ORMAT | TION COMPANY DISPOS | SING AT THIS FACILIT | Υ | | 02 D + 8 NUMB |
| PART 6—OFF-SIT | E GENERATOR INF | ORMAT | TION | | Y | | 02 D + 8 NUMB |
| PART 5—OFF-SIT | E GENERATOR INF | ORMAT | TION COMPANY DISPOS | SING AT THIS FACILIT OT NAME ORAU | Box, AFD #. etc) | | 04 SIC COD |
| PART 6—OFF-SIT | E GENERATOR INF | ORMAT | COMPANY DISPOS 22 D+8 NUMBER | SING AT THIS FACILIT 01 NAME ORAU | Box, AFD #. etc) | | % sic coo |
| PART 6-OFF-SIT | E GENERATOR INF TORS WITHIN NOTI | ORMAT | COMPANY DISPOS DZ D+8 NUMBER 04 SIC CODE 7391 07 ZIP CODE | SING AT THIS FACILIT OT NAME ORAU OSSTREET ADDRESS (P.O. U. S. Dept. | Box, AFD #. etc) | OS STATE TN | 04 SIC COD 7391 |
| PART 6—OFF-SIT | E GENERATOR INF TORS WITHIN NOTI | ORMATIFIER'S | COMPANY DISPOS 22 D+8 NUMBER 04 SIC CODE 7391 07 ZIP CODE 37831 | ORAU OSTREET ADDRESS (P.O. U. S. Dept. OSCITY Oak Ridge | Box, AFD #. etc) | OS STATE | % sic coo |
| PART 6—OFF-SIT | E GENERATOR INF TORS WITHIN NOTI | ORMATIFIER'S | COMPANY DISPOS DZ D+8 NUMBER 04 SIC CODE 7391 07 ZIP CODE | SING AT THIS FACILIT OT NAME ORAU OSSTREET ADDRESS (P.O. U. S. Dept. | Box, AFD #. etc) | 1 | 04 SIC COD 7391 07 ZIP CODE 37831 02 D + 8 NUMBE |
| PART 6—OFF-SIT | E GENERATOR INF TORS WITHIN NOTI Box. RFD #. etc.; of Energy | ORMATIFIER'S | COMPANY DISPOS DE D+8 NUMBER O4 SIC CODE 7391 O7 ZIP CODE 37831 O2 D+8 NUMBER | ORAU OSTREET ADDRESS (P.O. U. S. Dept. OSCITY Oak Ridge | of Energy | 1 | 04 SIC COD 7391 07 ZIP CODE 37831 |
| PART 6—OFF-SIT I. OTHER GENERA I NAME ORNL STREET ADDRESS (P.O. U. S. Dept. SCITY Oak Ridge I NAME ORGDP STREET ADDRESS (P.O. U. S. Dept. | E GENERATOR INF TORS WITHIN NOTI Box. AFD 8. etc.; Of Energy Box. AFD 8. etc.; Of Energy | ORMATIFIER'S | COMPANY DISPOS 02 D+8 NUMBER 04 SIC CODE 7391 07 ZIP CODE 37831 02 D+8 NUMBER 04 SIC CODE 7391/2819 | ORAU OSTREET ADDRESS (P.O. O. | of Energy | TN | 04 SIC COD 7391 07 ZIP CODE 37831 02 D + 8 NUMBS |
| PART S—OFF-SIT I. OTHER GENERA II NAME ORNL II STREET ADDRESS (P O. U. S. Dept. II SCITY Oak Ridge II NAME ORGDP II STREET ADDRESS (P.O.) | E GENERATOR INF TORS WITHIN NOTI Box. RFD #. etc.; of Energy Box. RFD #. etc.; | ORMATIFIER'S | COMPANY DISPOS DE D+8 NUMBER O4 SIC CODE 7391 O7 ZIP CODE 37831 O2 D+8 NUMBER | ORAU OSSTREET ADDRESS (P.O. U. S. Dept. OSCITY Oak Ridge | of Energy | TN | 04 SIC COD 7391 07 ZIP CODE 37831 02 D + 8 NUMBE |

See Attachment 1

Sources of Information for this Report

- 1. Company Operation Files
- 2. Exxon NFRRC, "Preliminary Safety Analysis Report," Docket 50-564, 1975.
- 3. McMaster, W. M., "Geologic Map of the Oak Ridge Reservation, Tennessee,"
 Martin Marietta Energy Systems, Inc., Oak Ridge National Laboratory,
 Health Physics Division, Oak Ridge, Tennessee, 1963.
- 4. McMaster, W. M., "Hydrologic Data for the Oak Ridge Area, Tennessee,"
 U. S. Geological Survey, Water Supply Paper 1839-N, 1967.

| , | Division of Solid | Maste Manager | Henr | |
|-------------|-------------------|---------------|----------|----------|
| Report on P | otential Hazar | dous Waste | Disposal | Facility |

| | | | | | DENTIFIC | |
|--|--|------------------------|---------------------|----------------------------|---------------------------------------|-----------------------|
| PART 1 - FACILITY INFORMATION AND ASSESSI | MENT | | | | DISPOSAL F | ACILITY ID NO. |
| I. FACILITY NAME AND LOCATION | | • | | PECIFIC LOCATION IS | SENTIFIER | |
| 01 FACILITY NAME (Legal, common, or descriptive name of site | 1 | 1 | BOX Y | PECIFIC LUCATION IS | 3E14111111 | |
| Y-12 Burial Ground A | | | M ZIP CODE | OS COUNTY | | OF COUNTY |
| OS CITY | | 04 STATE | 37831 | Anderson | | 29 |
| Oak Ridge | | TN | 3/031 | Ander 301 | <u> </u> | |
| 3 5° 5 7' 5 0" 8 4° | 1 7 4 5 | 11 | | | | |
| OP DIRECTIONS TO FACILITY ISlanting from neerest public roos Approximately 2.5 miles west on Plant. | Bear Cre | ek Road f | rom the m | ain portal | of the | Y-12 |
| III. RESPONSIBLE PARTIES | | | | | | • |
| 01 OWNER (If known) | | 02 STREE | | | | • |
| U.S. Department of Energy | | | . Box E | OS TELEPHONE NU | | |
| Oak Ridge | | 04 STATE TN | 37831 | (615) 576- | • | |
| OT OPERATOR (If known and different from owner) | | OB STREE | 7 | | | |
| Same as above | | | • | | | |
| OR CITY | | 10 STATE | 11 ZIP CODE | 12 TELEPHONE N | UMBER | |
| 13 TYPE OF OWNERSHIP (Check one) C. A. PRIVATE C. B. FEDERAL: | | D. O. E. | | C C STATE C | 3 D. COUNTY | E MUNICIPAL |
| G F. O'MEN | (Specify | | | | | |
| 14 FACILITY STATUS (Crock one) D. A. ACTIVE Z. B. INACTIVE D. C. UNKNOWN | 15 YEARS OF | OPERATION | 1955 SEGINNING Y | 1 1984 | | ☐ NNKNOWN |
| IV. NOTIFIER INFORMATION | | | | | | |
| OT NOTIFIER NAME (Company name) | 02 STREET OF | 80X NO. | | | 03 TELEPHO | |
| U.S. Department of Energy | P. O. | Box E | • | | | <u>576-0845</u> |
| 04 CITY | 05 STATE | 06 ZIP CODE | 07 COUNTY | | OS DATE | 08 / 03 / 84 |
| Oak Ridge | TN | 37831 | Anders | on · | , , , , , , , , , , , , , , , , , , , | MONTH DAY YEA |
| OB CONTACT NAME | | 10 CONTA | CTTITLE DO | E - Oak Rid vironmental | ge Oper Coordi | ations nator |
| 0 1 01 | | | | | | |
| R. L. Sleeman | | | | | | |
| 11 SIC CODE AND DESCRIPTION LISTED | ent Fabri | ication | • | | | |
| 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compon | ent Fabri | ication | ED. ETC.) | | | |
| 11 SIC CODE AND DESCRIPTION LISTED | ent Fabri s produced. Ac | ication | ED. ETC.) | | | |
| 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Componing Brief Description of Production Process (ITEMS | S PRODUCED, AC | TIVITIES INCLUD | ED. ETC.) | | | |
| 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compon | S PRODUCED, AC | TIVITIES INCLUD | ED. ETC.) | | | |
| 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Componing Brief Description of Production Process (ITEMS | S PRODUCED, AC | TIVITIES INCLUD | ED. ETC.) | | | |
| 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compon 12 SRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS | S PRODUCED, AC | TIVITIES INCLUD | ED. ETC.) | | | · |
| 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Componing Sales Description of Production Process (ITEMS Production of nuclear weapons | componer | TIVITIES INCLUD | | LILTY | | · |
| 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Componing Brief Description of Production Process (ITEMS Production of nuclear weapons PART 2 INFORMATION CONCERNING WAST | componer | TIVITIES INCLUD | INCED FACI | .iLTY | | · |
| 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compon 12 SRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS Production of nuclear weapons PART 2 INFORMATION CONCERNING WAST I. WASTE STATES, QUANTITIES, AND CHARA | COMPONEY TES DISPOSE ACTERISTICS | TIVITIES INCLUD | INCED FACI | LILTY | Check all that | 400/y) |
| 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compon 12 BRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS Production of nuclear weapons PART 2 INFORMATION CONCERNING WAST I. WASTE STATES, QUANTITIES, AND CHARA 01 PHYSICAL STATES (Check all that apply) 02 WASTE COMPONENTS | COMPONER COMPONER ES DISPOSE ACTERISTICS | D AT REFERE | DISPOSAL 03 WASTE | CHARACTERISTICS (| Toxic F | lammable |
| 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compon 12 SRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS Production of nuclear weapons PART 2 INFORMATION CONCERNING WAST I. WASTE STATES, QUANTITIES, AND CHARA 01 PMYSICAL STATES (Check all that apply) 02 WASTE COMPONENTS | COMPONER COM | D AT REFERE | DISPOSAL 03 WASTE | CHARACTERISTICS (| Toxic F | lammable |
| 2819 - Nuclear Weapons Componication of Production of nuclear weapons Production of nuclear weapons PART 2 INFORMATION CONCERNING WAST L. WASTE STATES, QUANTITIES, AND CHARA 11 PHYSICAL STATES (Check all that sapir) DA. SOUD DB. POWDER, FINES C. E. SLURRY DB. POWDER, FINES C. G. GAS OR CUE CONCERNION CONCERNING OC. SLUDGE CONCERNION CONCERNING OC. SLUDGE CONCERNION CONC | COMPONER COM | D AT REFERE AT TIME OF | DISPOSAL 03 WASTE | CHARACTERISTICS (I | Toxic F | |
| 2819 - Nuclear Weapons Componication of Production of nuclear weapons Production of nuclear weapons PART 2 INFORMATION CONCERNING WAST L. WASTE STATES, QUANTITIES, AND CHARA OT PHYSICAL STATES (Check all that apply) ON A. SOLID ON B. POWDER, FINES OF C. SLUGGE Solvents OR CUE | COMPONER COMPONER COMPONER CES DISPOSE ACTERISTICS CUANTITY AT SIT COMPONER | D AT REFERE AT TIME OF | DISPOSAL 03 WASTE | CHARACTERISTICS (I | Toxic F | ammable adioactive |

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| | | | | | | | | 1. IDENTIFICATION | ATION | _ |
|------------------------------------|--|---|---|--|---|---|--|---|-----------------------|--------|
| PART 2. W/ | PART 2 - WASTE INFORMATION—continued | continued | | | | | | 01 DISPOSAL FACILITY ID NO | ACILITY ID NO. | |
| II. HAZARDC | JUS WASTES (Referen | ce Hazardou | II. HAZARDOUS WASTES (Reference Hazardous Waste Regulations for Gode Numbers) | de Numbers) | | | - | | | • |
| DI HAZARDOHS WASTE CODE | 02 SUBSTANCE NAME | NME | 03 SOURCE OF WASTE (Activity Producing Waste) | 04 TREATMENT METHOD (Ref. Process Codes) | 05 STORAGEIDISPOSAL METHOD (Ref. Process Codes) | 06 AMOUNT DISPOSED PER MONTH | 07 UNIT OF MEASURE | OB CONCENTRATION AS DISPOSED | DB UNIT OF MEASURE | |
| NA | PCB | | Former Plant Opera | erations NA | D80 | | | | | · |
| NA | Misc. Uranium | Contam. | Plant Operations | NA | 801/1080 | | | | | |
| | Materials | | | | | | | | | Т |
| | Beryllium | | Plant Operations | NA | 080 | | | | | |
| NA | Thorium | | Plant Operations | NA | D80 | | | | | 1 1 |
| .001 | o Tronto | | Plant Onerations | AN. | 081 | Prior to | November | 1981, these | | 11 |
| F003 | Solvents | | Plant Operations | NA | 081 | 1111 | s were | poured onto | | |
| F003 | Solvents | | Operation | NA | 081 | the grou | nd. | | | T |
| | | | | - N | 080 | | • | | | |
| | Lead | | Plant Operations | NA | 080 | | | - | | - |
| FOOR | Plating Bath S | Sludges | | NA | D80 | | | | | 一 |
| | | | | | | 1 | | | | \top |
| F007 | Spent Cyanide | Soln. | Plant Operations | 104 | 670 | prior to | disposa | are complexed | | |
| | | | | | | | | | | \neg |
| | | | | | | | | | | 1 |
| | | | | | | | | | | 7 |
| | | | | | | | | | | |
| TOTAL DUANT | TOTAL DIANTITY OF HAZARDOUS WASTE DISPOSED PER MONTH | DISPOSED PER | MONTH = 142 Ton/Mo | 4o (Approximately) | [v) | | | | | |
| PROCESS CODES: | CODES: | | | 4 | 450 | Diagonali | | Code | | |
| Treatment: | Code | Trestment | Code | Storage: | 3 | NIECTION WELL | WELL | €ZQ | | |
| SURFACE IMPOUNDMENT INCINERATOR | 101 COUNDMENT 102 R | OTHER (Use L. thermal or bk thermal or bk processes non surface (mpoi Describe the i provided PAF | OTHER (Use for physical, chemical, 104 thermal or blokogical treatment processes not occurring in tenks, surface impoundments or inclinestors. Describe the process in the space provided PART 2 (ii) | CONTAINER (Berre), drum, etc) TANK WASTE PILE SUHFACE IMPOUNDMENT OTHER (Describe process in the space | in, etc) 802 803 803 804 815 in the space 805 | LANDFAL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUND OTHER (Describe pri | LANDFAL. LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUNDMENT OTHER (Describe process in space provided; Part 2-11) | D90 D90 D90 D90 D90 D90 D90 | | |

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| | | | | | L IDENTIFIC | |
|---|--|------------------|--------------------------|---------------------------------------|---------------------------------------|--------------------------|
| PART 2-WASTE IN | FORMATION—Continued | 1 | • | | 01 FACILITY IO | NO. |
| | | | | | N/A | • |
| II. EXPLANATION OF PRO | CESS CODES, PARTICULARLY | "OTHER" | CODES USED I | N PART 2-II. | | |
| See Attachment 1 | | | | | | |
| see Accacimient | | | | | | |
| | • | | | | | |
| | | | | | | |
| | | | | | | |
| PART 3—DESCRIPT | IVE INFORMATION | | | | | · · |
| L FACILITY DESCRIPTION | ٧ | | | | | · |
| 01 DESCRIPTION OF METHOD OF | F OPERATION, CLOSURE, COVER, ETC. | | | | | • |
| Trenches were exc seeded with grass | avated, filled with wa . Trenches were unlination, and type mater | nea. w | overed wit aste was s | h minimum egregated | l l-foot : l accordi | soil, and |
| 02 CURRENT USE AND SITE SEC | URITY (FENCING, LIGHTING, ETC.) WHERE | E APPLICABLE | 3 | | | |
| Facility is inact | rive, posted, and loca | ited on | restricted | d access (| governmen | t land. |
| | | | | | | |
| II. CONTAINMENT | king. Liners. Barriers. Leachate Col | LECTION AN | O TREATMENT SYS | TEMS. ETC | | • |
| A pond is used to Oils are collecte | collect seepage from d and stored as requi | pits r red. | esulting f | rom past | disposal | practices. |
| III. ACCESSIBILITY | | | | | | |
| 01 WASTE EASILY ACCESSIBLE (02 COMMENTS | exposed at surface?): | | | | | |
| PART 4—DEMOGR | APHIC, WATER, AND ENV | /IRONMI | ENTAL DATA | A | | |
| | ROPERTY INFORMATION | | | | | |
| C: ESTIMATED TOTAL POPULAT | | | | | · · · · · · · · · · · · · · · · · · · | Y-12 Plant |
| A Residents within "2 mi. radius | | s within 1 mi. r | Zero Zero | с. | . No. Emoloyees | on site 6000 |
| | | | | <u></u> | | |
| a. 20 ft. contours | IC MAP FOR 1 MI: RADIUS OF FACILITY S | HOWING THE | , roccomme. | | • | |
| o. existing roads. Duil c. drinning water intal | dings and other major structures kes (both groundwater and surface water) | | | | | |
| II. GROUNDWATER | | | | | | |
| 01 GROUNDWATER USE IN VICE D. A. ONLY SOURCE FOR DRINE | | L IRRIGATION | (Limited | CIAL INDUSTRIAL d other sources at | L IRRIGATION | 🛕 E. ŅOT USED, UNUSEABLE |
| 02 POPULATION WITHIN 1 MI. F | 7000 | | 03 DISTANCE TO | D NEAREST DOW | | (estimate) |
| WHICH IS SERVED BY GROUND 04 DEPTH TO UPPERMOST SOLUTION (III) | os direction of uppermost | OS DEPT | H TO AQUIFER | 07 POTENT | TAL YIELD | OS SOLE SOURCE AQUIFE |
| 5-20 m | 33431.1133 | | | 1 | | |

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| | | | LIDENTIFICATION |
|--|--------------------------------------|--|---|
| PART 4—WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DAT | A | | 01 FACILITY IO NO. N/A |
| | | | 11/15 |
| IL GROUNDWATER—Continued | | | |
| Several monitoring and test wells of various and language of the second section of the section of the second section of the section of the second section of the sect | s depths | are located i | near this facility. acility. |
| 10 RECHARGE AREA | 11 DISCHARG | E AREA | |
| M YES COMMENTS Surface and ground water could flow into Bear Creek. | DX YES | | ing springs have been rted in this area. |
| II. SURFACE WATER | | | |
| O1 SURFACE WATER USE (Check one) O A. RESERVOIR, RECREATION | LY 🗆 C. CO | AMERCIAL INDUSTI | RIAL & D. NOT CURRENTLY USES |
| 02 POTENTIALLY AFFECTED BODIES OF WATER | | | • |
| NAME Tributary to Bear Creek | | | DISTANCETO SITE 20.01 (mi) |
| | | • | ≃0.40 (mi) |
| Bear Creek | | | (mi) |
| IV. ENVIRONMENTAL INFORMATION | | | |
| T PERMEABILITY OF UNSATURATED ZONE (Check one) | | | |
| 1 A, 10*10 10**em/sec | ,10 to 10-10mvs | C 0. GREATE | R THAN 10-10/MISEC |
| 22 PERMEABILITY OF BEDROCK (Check one) | | | |
| C A IMPERMEABLE CY B. RELATIVELY IMPERMEABLE (Less than 10-cm/sec) (10-to 10-cm/sec) | LE D C. RI | ilativelý permeablí 10— <i>em/</i> 2001 | Greater then 10" cm/sect |
| 23 DEPTH TO SEDROCK 04 DEPTH OF CONTAMINATED SOIL ZONI 4 20 (m) Unknown (m) | € | 05 SOIL PM 5-7 | • |
| 06 NET PRECIPITATION/YEAR 07 TEN YEAR 24 HOUR RAINFALL 08 54.45 (in) | SITE SLOPE | DIRECTION OF SIT | i _ |
| SPRESCRIPTION TVA Flood Control Area FACILITY IS IN > 100 YEAR FLOOD PLAIN | 1 | TO CRITICAL HABITAT | Unknown (ma) |
| 10 DISTANCE TO WETLANDS (5 sere minimum) >5 (mil) | ENDANGER | ED SPECIES: None | • |
| 2 DESCRIPTION OF FACILITY IN RELATION TO SURROUNDING TOPOGRAPHY | | | |
| Facility is located in Bear Creek Valley (9 Pine Ridge (1,200 ft. elevation) and Chestn | 010 [°] ft. el nut Ridge | evation) sit (1,100 ft. e | cuated between elevation). |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| V. PHOTOGRAPHS (Provide copies if readily available) | | | |
| THE Y CHOUNG A APPLAY OF WASTON OF Y-12 | ISEA DIVI | | |
| (Name of org | O. BOX Y | ividual contact) | |
| 23 ATES (estimated) EARLIEST PHOTO DATE 1984 Phone No.: | k Ridge, | TN 37831 | |

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| | NO EIEI O INEOD | MATION | 1 | | 01 | FACILITY ID | 40. | |
|---|---|---------------|---|---|------------------|-------------|----------|--|
| PART 5—SAMPLE A | NU FIELD INFOR | MAIIUN | • | • | | NA | | |
| | | | | | | | | |
| SAMPLES TAKEN | 01 NUMBER OF SAMPLES TAKE | 02 8 | RIEF SUMMARY OF ANA | LYTICAL RESULTS | | | | OS SAMPLING DATES |
| GROUNDWATER | JAMPLES IARE | | ome informatio | n available | upon spe | ecific | | . — |
| SURFACE WATER | | | quest. | | | | | |
| AMBIENT AIR | · | | | | | | | • |
| METHANE | | | | | | | | |
| AUNOFF | | | | | | | | · |
| SOIL | | | | | | | | |
| VEGETATION | | | | | | | | |
| OTHER | | | | | | | | |
| OTHER FIELD DA | TA COLLECTED (| Provide | field measurements | and narrative d | escription of | other field | data) | |
| intormation a | vallable upo | on spe | ecific reques | <u>.</u> | | • • • • | | |
| PART 5—OFF-SITE | GENERATOR IN | FORMA* | TION | | | • • • • | | |
| PART 5—OFF-SITE | GENERATOR IN | FORMA* | TION COMPANY DISPO | SING AT THIS F | ACILITY | | | 02 D + 8 MINUS |
| PART 5—OFF-SITE . OTHER GENERAT | GENERATOR IN | FORMA* | TION | | ACILITY | | | 02 D + 8 NUMBE |
| PART 6—OFF-SITE OTHER GENERAT | GENERATOR IN | FORMA* | TION COMPANY DISPO D2 D+8 NUMBER D4 SIC CODE | SING AT THIS F | | #. etc) | | 02 D + 8 NUMBE |
| PART 5-OFF-SITE OTHER GENERAT NAME ORNL ISTREET ADDRESS (PO. 1) U. S. Dept. (1) | GENERATOR IN | FORMATIFIER:S | TION S COMPANY DISPO 02 D + 8 NUMBER | SING AT THIS F | | | | |
| PART 6—OFF-SITE OTHER GENERAT | GENERATOR IN ORS WITHIN NOT BOX. AFD 8. etc.) Of Energy | FORMATIFIER:S | TION COMPANY DISPON COMPANY | SING AT THIS F. O1 NAME O3 STREET AODRES | | | 06 STATE | 04 SIC COD 07 ZIP CODE |
| PART 5—OFF-SITE OTHER GENERAT NAME ORNL STREET ADDRESS(PO. 1) U. S. Dept. (CITY Oak Ridge | GENERATOR IN ORS WITHIN NOT BOX. AFD 8. etc.) Of Energy | FORMATIFIER:S | TION COMPANY DISPO COMPANY DISPO COMPANY DISPO COMPANY DISPO TOTOLOGIC | SING AT THIS F. | | | 06 STATE | 04 SIC COD |
| PART 6—OFF-SITE OTHER GENERAT NAME ORNL STREET ADDRESS (P.O. E. CITY Oak Ridge NAME ORGDP STREET ADDRESS (P.O. E. | GENERATOR IN | FORMATIFIER:S | TION COMPANY DISPON COMPANY | SING AT THIS F. O1 NAME O3 STREET AODRES | S (P.O. Bex. RFD | ■. e1C) | 06 STATE | 04 SIC COD 07 ZIP CODE 02 D + 8 NUMBE 04 SIC CODE |
| PART 5—OFF-SITE OTHER GENERAT NAME ORNL STREET ADDRESS(PO. 1) U. S. Dept. (CITY Oak Ridge | GENERATOR IN ORS WITHIN NOT Box. AFD 8. etc., of Energy of Energy | FORMATIFIER:S | TION COMPANY DISPON COMPANY | SING AT THIS F. O1 NAME C3 STREET AODRES 05 CITY O1 NAME | S (P.O. Bex. RFD | ■. e1C) | 06 STATE | 04 SIC COD 07 ZIP CODE 02 D + 8 NUMBE |

Additional Comments to Report on Hazardous Waste Disposal Facility - 1-12 Burial Ground A, U. S. Department of Energy.

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Supplementary Comments on Parts 2 and 3.

Burial Ground A was first used in 1955 for disposal of waste materials contaminated with depleted and normal uranium. Examples of the solid waste included wood, paper, carbon, metal machine turnings, plastic, filters, metal drums and small quantities of metal. The area was used for disposal of some chemicals. The solid waste accounts for approximately 90% of waste quantities reported in Part 2.

Liquid streams contaminated with uranium, beryllium, and thorium were disposed of in Burial Ground A. These liquids included oils, coolants, mopwaters, and some RCRA-listed hazardous organic and inorganic liquids. One method of disposal involved excavation of a sealed pit, installation of a perforated pipe, and backfilling the void around the pipe with large stone. The waste liquids were then poured into the pipe and allowed to permeate the stone and waste materials within the trench. A second disposal method utilized the ground surface to allow vaporization of organic solvents. In 1973, the Waste Oil Landfarm was started, and oils and coolants were no longer sent to the burial ground. In 1979, the disposal point for the mopwaters was transferred to S-3 Ponds. The general practice of pouring out organic liquids/solvents was stopped in 1981. These liquids are now being stored for treatment and eventual disposal. In addition, two other liquid streams consisting of sludges generated by biodegradation of water-soluble coolants and complexed-cyanide solutions were disposed of in Burial Ground A.

ATTACHMENT 2

Sources of Information for this Report

- 1. Company Operation Files
- 2. Exxon NFRRC, "Preliminary Safety Analysis Report," Docket 50-564, 1975.
- 3. McMaster, W. M., "Geologic Map of the Oak Ridge Reservation, Tennessee,"
 Martin Marietta Energy Systems, Inc., Oak Ridge National Laboratory,
 Health Physics Division, Oak Ridge, Tennessee, 1963.
- 4. McMaster, W. M., "Hydrologic Data for the Oak Ridge Area, Tennessee," U. S. Geological Survey, Water Supply Paper 1839-N, 1967.

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Division of Solid Waste Management

Report on Potential Hazardous Waste Disposal Facility

| | | | | | : | LIDENTIF | CATION |
|---|--|---------------------|------------|---|---------------------------------------|--------------------|-----------------------------|
| PART 1 - FACILITY INFORMATION AND ASSE | SSMENT | | | | | 01 DISPOSAL N/A | , FACILITY ID NO. |
| II. FACILITY NAME AND LOCATION | | | | | | | |
| 01 FACILITY NAME (Legal, common, or descriptive name of | Site) | | | | PECIFIC LOCATIO | N IDENTIFIER | • |
| Y-12 Burial Ground C | | | | BOX Y | OS COUNTY | | 07 COUNTY |
| Oak Ridge | | | TN | 37831 | Anders | on | 29 |
| OR COORDINATES LATITUDE | LONGITUDE 0' | | | | | | • |
| OF DIRECTIONS TO FACILITY (Starting from neerest public | roed) | <u>'</u> | · | | | | |
| Approximately 2.5 miles west of Plant. | | eek R | Road fr | om the ma | ain porta | l of the | Y-12 |
| III. RESPONSIBLE PARTIES | | | | | | | |
| 01 OWNER (If known) | | | 02 STREET | Dav. 5 | | | • |
| U.S. Department of Energy | | | P. U. | BOX E | 06 TELEPHONE | NUMBER | |
| Oak Ridge | | | TN | 37831 | (615) 57 | | |
| 07 OPERATOR (If known and different from owner) | | | OS STREET | | | | |
| Same as above | | | | <u> </u> | | | |
| OS CITY | | | 10 STATE | 11 ZIP CODE | 12 TELEPHONE | NUMBER | |
| 13 TYPE OF OWNERSHIP (Check one) | | | | | | | / |
| Q A PRIVATE ON B. FEDERAL | <u>U.S.</u> | D. U | | | C C STATE | D. COUNT | Y DE MUNICIPAL |
| D. F. OTHER: | (Seecit | 7) | | | G.UNFNOW | /N | |
| 14 FACILITY STATUS (Cheek one) | 15 YEARS OF | OPERA | TION | 1961 | l Pre | sent | |
| A ACTIVE I B. INACTIVE II C. UNKNOW | N | | _ | BEGINNING YE | | IG YEAR | ☐ UNKNOWN |
| IV. NOTIFIER INFORMATION | | | | | · · · · · · · · · · · · · · · · · · · | | |
| OT NOTIFIER NAME (Company name) | 02 STREET OF | | | | | | NE NUMBER |
| U.S. Department of Energy | P. O. | | | 7 COUNTY | | OS DATE | 576-0845 |
| osciry Oak Ridge | | 3783 | 1 | Anderso | n , | | 8 / 3 / 84 MONTH DAY YEA |
| 09 CONTACT NAME | | | 10 CONTAC | TITLE DOE | - Oak Ri | | |
| R. L. Sleeman | | | | Env | - Oak Ri ironmenta | 1 Coord | inator |
| 11 SIC CODE AND DESCRIPTION LISTED | | | | - | | | |
| 2819 - Nuclear Weapons Compo | | | | | | | · |
| 12 BRIEF DESCRIPTION OF PRODUCTION PROCESS (ITE | ms produced. Ac | TIVITIES | s included | , ETC.) | | | |
| Production of nuclear weapor | s componer | nts | | • | | | |
| | • | | • | | | • | |
| | | • | | | | | |
| PART 2 INFORMATION CONCERNING WAS | TES DISPOSE | D AT F | REFEREN | CED FACILII | TY | | |
| I. WASTE STATES, QUANTITIES, AND CHAI | | | | | | | |
| | QUANTITY AT SITE | | | 03 WASTE CH | ARACTERISTICS | (Check all the | 1 400/y) |
| D'A SOLID D. E. SLURRY | Measures of waste : must be indeper | quantitic ngent) | | ∑ lgniti | 10:e Z | Taxic | |
| CX C. SLUDGE C G. GAS | TONS | 0 tor | n/yr_ | ☐ Read | _ | SP Toxic | |
| C D OTHER | OF DRUMS | | | □ Com | saive E | other_Rac | dioactive Iner |
| 04 DATES OF WASTE DISPOSAL BY NOTIFER AT ABOVE | | 1961 | | Present | | | |
| I | SITE: FROM | 1001 | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | |

Tennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| PART 2 · W | PART 2 · WASTE INFORMATION — continued | 10N—continued | | | | | | | 1. IDENTIFICATION | ATION |
|--|--|---|---|---------------------|--|---|------------------------------------|--|---|-----------------------|
| II. HAZARD | OUS WASTES (Re | Merence Hazardous | II. HAZARDOUS WASTES (Reference Hazardous Waste Regulations f | s for Code Numbers) | nbers) | | | | N/A | |
| DI HAZARDOUS WASTE CODE | 02 SUBSTA | 02 SUBSTANCE NAME | 03 SOURCE OF WASTE (Activity Producing Waste) | SIE asie) | D4 THEATMENT METHOD (Ref. Process Codes) | 05 STORAGE/DISPOSAL METHOD (Ref. Process Codes) | 06 AMOUNT DISPOSED PER MONTH | 07 UNIT OF MEASURE | 00 CONCENTRATION AS DISPOSED | 09 UNIT OF MEASURE |
| N/A | Materials (with enrich thorium, a | Materials Contaminated with enriched uranium thorium, and beryllium | Plant Operati | tions | NA | NA/D80 | 53 | Ton/Mo | NA | NA |
| 10001 | Liquid Pro | Process Waste | Plant Operati | tions | NA | NA/D80 | | | | |
| N/A | Lead | • | Plant Operati | tions | NA | NA/D80 | | | | |
| N/A | Mercury | | Plant Operati | tions | NA | NA/D80 | | | | |
| | | | | | - | | | | | |
| | | | | | | | | | | |
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| | | | | | | - | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL QUANT | ITY OF HAZARDOUS W | TOTAL QUANTITY OF HAZARDOUS WASTE DISPOSED PER MONTH | = 53 | on/Mo (Api | Ton/Mo (Approximately) | | | | | |
| PROCESS CODES | CODES: | Treelment | | Code Sto | Storage: | Code | Disposal: | | Code | |
| TANK SURFACE IMPOUNDMENT INCINERATOR | | OTHER (Use for thermal or blok processes more surface impoun Describe the pro provided. PART | OTHER (Use for physical, chemical, thermal or biological treatment or biological treatment surface and occurring in lanks, surface impoundments or inclinerators. Describe the process in the space provided. PARI 2 III) | 104 CO | CONTAINER (berret, drum, etc) TANK WASTE PILE SURFACE IMPOUNDMENT OTHER (Describe process in the space | 501 801 W In the space 505 | | INJECTION WELL LANDFILL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUNDMENT OTHER (Describe process In space provided, Part 2 III) | - 088 | |

Tennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| | I. IDENTIFI | |
|--|--|---------------------------------------|
| PART 2—WASTE INFORMATION—Continued | 01 FACILITY | |
| | N/A | 4 |
| I. EXPLANATION OF PROCESS CODES, PARTICULARLY "OTHER" CODES USE | D IN PART 2-II. | |
| | | |
| | | |
| | | |
| • | | |
| | | · · · · · · · · · · · · · · · · · · · |
| PART 3—DESCRIPTIVE INFORMATION | | |
| . FACILITY DESCRIPTION | | |
| TO COMPANY OF THE COVER FTC | | • |
| Trenches were excavated, filled with waste, covered wastenches were unlined. Waste was segregated according type of material. | rith soil, and seeding to hazards, cont | ed with grass. amination, |
| 02 Current use and site security (fencing, lighting, etc.) where applicable. | | |
| The facility is within a posted and locked area. | | |
| The facility is within a poster and following | | |
| | | |
| II. CONTAINMENT | | |
| II. CONTAINMENT 11. DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, LEACHATE COLLECTION AND TREATMENT | SYSTEMS, ETC | · • • • |
| 01 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, LEACHATE COLLECTION AND TREATMENT | SYSTEMS. ETC | |
| II. CONTAINMENT OF DESCRIPTION OF DRUMS. DIKING, LINERS, BARRIERS, LEACHATE COLLECTION AND TREATMENT No containment, collection, or treatment systems are u | systems.etc | - |
| 01 DESCRIPTION OF DRUMS. DIKING. LINERS. BARRIERS. LEACHATE COLLECTION AND TREATMENT NO CONTAINMENT, COLLECTION, OR TREATMENT SYSTEMS ARE U | systems.etc. | |
| OF DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, LEACHATE COLLECTION AND TREATMENT NO CONTAINMENT, COLLECTION, OF TREATMENT SYSTEMS ARE U | systems.etc. | |
| 01 DESCRIPTION OF DRUMS. DIKING. LINERS. BARRIERS. LEACHATE COLLECTION AND TREATMENT NO CONTAINMENT, COLLECTION, OR TREATMENT SYSTEMS ARE U | systems.etc. | |
| OF DESCRIPTION OF DRUMS. DIKING. LINERS. BARRIERS. LEACHATE COLLECTION AND TREATMENT NO CONTAINMENT, COLLECTION, OF Treatment systems are to the system of t | systems. ETC. | |
| DISCRIPTION OF DRUMS. DIKING. LINERS. BARRIERS, LEACHATE COLLECTION AND TREATMENT NO containment, collection, or treatment systems are unit. ACCESSIBILITY OF WASTE EASILY ACCESSIBLE (exposed at surface?): OF YES ON NO | systems. ETC | |
| OF DESCRIPTION OF DRUMS. DIXING. LINERS. BARRIERS. LEACHATE COLLECTION AND TREATMENT NO containment, collection, or treatment systems are units. Accessibility OF WASTE EASILY ACCESSIBLE (exposed at surface?): | sed. | |
| DESCRIPTION OF DRUMS. DIKING. LINERS. BARRIERS. LEACHATE COLLECTION AND TREATMENT NO CONTAINMENT, COLLECTION, OT Treatment systems are until ACCESSIBILITY OF WASTE EASILY ACCESSIBLE (exposed at surface?): OF YES ON NO COMMENTS | sed. | |
| OF DESCRIPTION OF DRUMS. DIKING. LINERS. BARRIERS. LEACHATE COLLECTION AND TREATMENT NO containment, collection, or treatment systems are units. ACCESSIBILITY OF WASTE EASILY ACCESSIBLE (exposed at surface?): | sed. | Y-12 Plant |
| DISCRIPTION OF DRUMS. DIXING. LINERS. BARRIERS. LEACHATE COLLECTION AND TREATMENT NO CONTAINMENT, COllection, or treatment systems are units. ACCESSIBILITY DISCRIPTION OF DRUMS. DIXING. LINERS. BARRIERS. LEACHATE COLLECTION AND TREATMENT ARE UNITS. III. ACCESSIBILITY DISCRIPTION OF DRUMS. DIXING. LINERS. BARRIERS. LEACHATE COLLECTION AND TREATMENT ARE UNITS. III. ACCESSIBILITY DISCRIPTION OF DRUMS. DIXING. LINERS. BARRIERS. LEACHATE COLLECTION AND TREATMENT ARE UNITS. III. ACCESSIBILITY DISCRIPTION OF DRUMS. DIXING. LINERS. BARRIERS. LEACHATE COLLECTION AND TREATMENT ARE UNITS. III. ACCESSIBILITY DIVIDING MASTE EASILY ACCESSIBLE (exposed at surface?): | ATA | 6000 |
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| OI DESCRIPTION OF DRUMS. DIXING. LINERS. BARRIERS. LEACHATE COLLECTION AND TREATMENT NO CONTAINMENT, COLLECTION, OT Treatment systems are used. III. ACCESSIBILITY OI WASTE EASILY ACCESSIBLE (exposed at surface?): | ATA C. No. Employe | 6000 |
| DI DESCRIPTION OF DRUMS. DIKING. LINERS. BARRIERS. LEACHATE COLLECTION AND TREATMENT NO CONTAINMENT, COllection, or treatment systems are used to contain the collection of treatment systems are used to contain the collection of the co | ATA C. No. Employe | 6000 |
| On DESCRIPTION OF DRUMS. DIKING, LINERS, BARRIERS, LEACHATE COLLECTION AND TREATMENT NO CONTAINMENT, COLLECTION, OT Treatment systems are used. III. ACCESSIBILITY ON WASTE EASILY ACCESSIBLE (exposed at surface?): | ATA C. No. Employe | 6000 |
| O1 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, LEACHATE COLLECTION AND TREATMENT NO CONTAINMENT, COLLECTION, OT Treatment systems are used. III. ACCESSIBILITY O1 WASTE EASILY ACCESSIBLE (exposed at surface?): | ATA C. No. Employe | Y-12 Plant 6000 |
| OT DESCRIPTION OF DRUMS. DIKING. LINERS. BARRIERS. LEACHATE COLLECTION AND TREATMENT NO CONTAINMENT, COLLECTION, OT Treatment systems are used. III. ACCESSIBILITY OT WASTE EASILY ACCESSIBLE (exposed at surface?): | ATA C. No. Employe | es on site 6000 |
| OI DESCRIPTION OF DRUMS. DIKING. LINERS. BARRIERS. LEACHATE COLLECTION AND TREATMENT NO CONTAINMENT, COLLECTION, OT Treatment systems are to containment, collection, or treatment systems are to containment, collection, or treatment systems are to containment, collection, or treatment systems are to contain the collection of the collec | MERCIAL INDUSTRIAL IRRIGATION mited other sources aveilable) DE TO NEAREST DOWN GRADIENT | es on site 6000 |
| OI DESCRIPTION OF DRUMS. DIKING. LINERS. BARRIERS. LEACHATE COLLECTION AND TREATMENT NO CONTAINMENT, COLLECTION, OT Treatment systems are to containment, collection, or treatment systems are to containment, collection, or treatment systems are to containment, collection, or treatment systems are to contain the collection of the collec | MERCIAL INDUSTRIAL IRRIGATION miled other sources available) CE TO NEAREST DOWN GRADIENT WATER WELL >5 (n | es an site 6000 |

Tennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| | | 1.10 | ENTIFICATION |
|---|--------------------------------|-------------------------------|---|
| PART 4—WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DA | TA . | 01 FA | CILITY ID NO. N/A |
| IL GROUNDWATER—Continued | | | |
| 09 DESCRIPTION OF WELLS (Including usage, depth, and location—latitude and loc | igitudewithin 1 mi. redi | ius) | |
| Several monitoring and test wells of various this facility. There are no water supply a facility. | us depths are | located wit | hin 3000 feet of ius of this |
| 10 RECHARGE AREA | 11 DISCHARGE AR | EA | |
| матер сомментя Surface water and ground water could flow into Bear Creek. | CK YES COM | | springs have been d in this area. |
| III. SURFACE WATER | | | |
| 01 SURFACE WATER USE (Check one) 12 A. RESERVOIR, RECREATION DRINKING WATER SOURCE 13 B. IRRIGATION, ECONOMICA IMPORTANT RESOURCES | LLY @ C. COMME | RCIAL INDUSTRIAL | ל D. NOT CURRENTLY USED |
| 02 POTENTIALLY AFFECTED SODIES OF WATER | | | |
| NAME: Tributary to Bear Creek | • | | DISTANCE TO SITE |
| Веаг Стеек | • | | ≃0.40 (mi) |
| W ENVIRONMENTAL INFORMATION | | | |
| IV. ENVIRONMENTAL INFORMATION 01 PERMEABILITY OF UNSATURATED ZONE (Check One) | , | | |
| ☐ A. 10™10 10™cm/sec ☐X 8.10™10 10™cm/sec □ | C 10== 10, 10=1====== | D. GREATER THA | N 10-tem/sec |
| 12 PERMEABILITY OF BEDROCK (Cheek one) | G 19 19 GRUSSE | | |
| C A IMPERMEABLE CX B. RELATIVELY IMPERMEAI (Less than 10 cm/20c) (10 to 10 cm/20c) | BLE D'C. RELATIV | iely Permeable Risoc) (Gro | O D. VERY PERMEABLE ater than 10" amraet |
| OS DEPTH TO SEDROCK O4 DEPTH OF CONTAMINATED SOIL ZON UN KNOWN (m) | | -7 | • |
| 26 NET PRECIPITATION/YEAR 07 TEN YEAR 24 HOUR RAINFALL 0 5.2 (in) | <5 % | South | TERRAIN AVERAGE SLOPE |
| 03 FLOOD POTENTIAL FACILITY IS IN > 100 YEAR FLOOD PLAIN | 11 DISTANCE TO CR | ITICAL HABITAT | known (m) |
| 10 DISTANCE TO WETLANDS (5 aero minimum) >5 (mit) | ENDANGERED SF | Mono | |
| 12 DESCRIPTION OF FACILITY IN RELATION TO SURROUNDING TOPOGRAPHY | | | |
| Facility is located in Bear Creek Valley (9 Pine Ridge (1,200 ft. elevation) and Chest | 910 ft. eleva nut Ridge (1, | tion) situat 100 ft. elev | ed between ation). |
| : | | | |
| • | | | |
| | | • | |
| | | | |
| | | | |
| W 9407000 A040 (P 1/4 - 1/4 | <u> </u> | | |
| V: PHOTOGRAPHS (Provide copies if readily available) | HVEA HIVISION | | |
| OT TYPE AT GROUND THE AFRICAL OR IN CUSTODY OF Y-12 | HSEA UTVISTOR | | |

Tennessee Department of Public Health — Division of Solid Waste Management Potential Hazardous Waste Disposal Facility

| PART S-SAMPLE A | | | | | 1. IDENTIFIC | | |
|---|--|-----------|--|---|---------------------|----------|--|
| | ND FIELD INFOR | MATION | 1 | | 01 FACILITY ID | | |
| | | | | | | | |
| . SAMPLES TAKEN | 01 NUMBER OF | 02.8 | RIEF SUMMARY OF ANAL | YTICAL RESULTS | | | 03 SAMPLING DATES |
| SAMPLE TYPE | SAMPLES TAKE | 4 | | | | | |
| GROUNDWATER | | So | me information | n available upo | on specific | | |
| SURFACE WATER | - | re | quest. | | | | |
| AMBIENT AIR | | | | | | - | · |
| METHANE | | | | | - | | |
| RUNOFF | | | | | | | |
| SOIL | | | | | | | • |
| VEGETATION | | | | | | | |
| OTHER | | | | | | | |
| | TA COLLECTED (S | 3-ovida i | Said measurements | and narrative descrip | tion of other field | data) | |
| | | | | | <u>.</u> | | · . |
| PART 6—OFF-SITE | GENERATOR INI | FORMA | TION | | | | - |
| | | | | ing at this facili | | | |
| . OTHER GENERAT | | IFIER'S | | ING AT THIS FACILI | π | | 02 D + 8 NUME |
| . OTHER GENERAT | | IFIER'S | COMPANY DISPOS | 01 NAME | | | |
| OTHER GENERATO | ORS WITHIN NOT | IFIER'S | COMPANY DISPOS | | | | |
| OTHER GENERATO NAME ORNL STREET ADDRESS (P.O. B. U. S. Dept. O | ORS WITHIN NOT Box. RFO R. etc.) of Energy | TIFIER'S | COMPANY DISPOS 02 D + 8 NUMBER 04 SIC CODE 7391 07 ZIP CODE | 01 NAME | | O6 STATE | |
| OTHER GENERATO | ORS WITHIN NOT Box. RFO R. etc.) of Energy | rifier's | COMPANY DISPOS 02 D+8 NUMBER 04 SIC CODE 7391 07 ZIP CODE 37831 | 03 STREET ADDRESS (P.O. 05 CITY | | | |
| OTHER GENERATO NAME ORNL STREET ADDRESS (P.C. 8 U. S. Dept. Co | ORS WITHIN NOT Box. RFO R. etc.) of Energy | TIFIER'S | COMPANY DISPOS 02 D + 8 NUMBER 04 SIC CODE 7391 07 ZIP CODE | 03 STREET ADDRESS (P.O. | | | 04 SIC COI |
| NAME ORNL STREET ADDRESS (P.O. 8 U. S. Dept. C. CITY Oak Ridge NAME ORGDP | ors within not lox. AFO s. erc.) of Energy | TIFIER'S | COMPANY DISPOS 02 D+8 NUMBER 04 SIC CODE 7391 07 ZIP CODE 37831 | 03 STREET ADDRESS (P.O. 05 CITY | Boz, AFD #. etc) | | 04 SIC COI 07 ZIP CODE 02 D + 8 NUM8 |
| OTHER GENERATO INAME ORNL ISTREET ADDRESS (P.O. 8 U. S. Dept. O ICITY Oak Ridge NAME ORGDP | ORS WITHIN NOT | TIFIER'S | 04 SIC CODE 7391 07 ZIP CODE 37831 02 D + 8 NUMBER | 01 NAME 03 STREET AODRESS (P.O. 05 CITY 01 NAME | Boz, AFD #. etc) | | 04 SIC COS |
| ORNL STREET ADDRESS (P.O. B. U. S. Dept. O CONTY Oak 'Ridge NAME ORGDP STREET ADDRESS (P.O. B. U. S. Dept. O | ors within not of Energy of Energy of Energy | ESTATE TN | COMPANY DISPOS 02 D + 8 NUMBER 04 SIC CODE 7391 07 ZIP CODE 37831 02 D + 8 NUMBER | 01 NAME 03 STREET AODRESS (P.O. 05 CITY 01 NAME | Boz, AFD #. etc) | | 04 SIC COI 07 ZIP CODE 02 D + 8 NUMB |
| ORNL STREET ADDRESS (P.O. B. U. S. Dept. O COUNTY Oak 'Ridge NAME ORGDP STREET ADDRESS (P.O. B. U. S. Dept. O SCITY Oak Ridge | ors within not of Energy of Energy of Energy | STATE TN | 04 SIC CODE 7391 07 ZIP CODE 37831 02 D + 8 NUMBER 04 SIC CODE 7391/2819 07 ZIP CODE 37831 | 01 NAME 03 STREET ADDRESS (P.O. 05 CITY 01 NAME 03 STREET ADDRESS (P.O. | Box, RFD 4, etc) | OS STATE | 04 SIC CODE 02 D + 8 NUMB 04 SIC CODE 07 ZIP CODE |

Sources of Information for this Report

- 1. Company Operation Files
- 2. Exxon NFRRC, "Preliminary Safety Analysis Report," Docket 50-564, 1975.
- 3. McMaster, W. M., "Geologic Map of the Oak Ridge Reservation, Tennessee,"
 Martin Marietta Energy Systems, Inc., Oak Ridge National Laboratory,
 Health Physics Division, Oak Ridge, Tennessee, 1963.
- 4. McMaster, W. M., "Hydrologic Data for the Oak Ridge Area, Tennessee," U. S. Geological Survey, Water Supply Paper 1839-N, 1967.

Division of Solid Waste Management

Report on Potential Hazardous Waste Disposal Facility

| ART 1 - FACILITY INFORMATION AND ASSESSI | MENT | | | | 01 DISPOSA | FICATION L FACILITY ID NO. |
|--|--|---|--|---|--|--|
| ATT - PACILITI INFORMATION AND ADDRESS | | | | | N/A | |
| FACILITY NAME AND LOCATION | | 02 STREET | , ROUTE NO. OR S | PECIFIC LOCAT | TON IDENTIFIE | R |
| FACILITY NAME (Legal, common, or descriptive name of site Y-12 Chestnut Ridge Sediment Dis | " sposal Bas | | | | | |
| Y-12 Chestnut Riage Seatment Dis | J D J J G I J G I | 04 STATE | 05 ZIP COUE | 06 COUNTY | | 07 COUNTY . |
| Oak Ridge | | TN | 37831 | Ander | son | 29 |
| COORDINATES 5° 59 30" 84° | 1 4' 0 5 | 91 | | | | |
| DIRECTIONS TO FACILITY (Starting from neerest public road | d) | · • | Dand fine | - Canaba | no Poad | |
| Approximately 0.5 mile west on | Y-12 Plan | t Service | e Koad Tri | m Scarbo | TO ROAG. | · |
| I. RESPONSIBLE PARTIES | | | | | | • |
| OWNER (If known) | | 02 STREE | Box E | | | • |
| U.S. Department of Energy | | 04 STATE | 05 ZIP CODE | OS TELEPHON | | |
| oak Ridge | | TN | 37831 | (615) 5 | 76-0845 | |
| 7 OPERATOR (If known and different from owner) | | OS STREE | ग | | | |
| Same as above | | | · · · | | | |
| s CITY | | 10 STATE | 11 ZIP CODE | 1 | NE NUMBER | |
| | | | | () | | |
| | U. S. | D - D E | | C C STATE | | NTY DE MUNICIPA |
| TYPE OF OWNERSHIP (Check one) | 0. 3. | <u> </u> | | _ | | |
| A. PRIVATE ON B. FEDERAL | 1 | Agency name) | | E G.UNKN | | |
| IS TYPE OF OWNERSHIP (Check one) I A PRIVATE ON B. FEDERAL: I F. OTHER: | (Specify | Agency name) | | | OWN . | |
| D A PRIVATE ON B. FEDERAL | 1 | Agency name) | 1973 | Pro | | |
| D A PRIVATE ON B. FEDERALL | (Specify | Agency name) | 1973 BEGINNING Y | Pro | esent | _ UNKNOW |
| I A PRIVATE ON B. FEDERALL | (Specify | Agency neme) | | Pro | esent DING YEAR | UNKNOW |
| I A PRIVATE ON B. FEDERALL | (Specify 15 YEARS OF | OPERATION | | Pro | esent DING YEAR | |
| D A PRIVATE DE B. FEDERAL: D F. OTHER: D'A ACTIVE D B. INACTIVE D C. UNKNOWN IV. NOTIFIER INFORMATION OT NOTIFIER NAME (Company name) U.S. Department of Energy | (Specify, IS YEARS OF D. O. O. STATE | OPERATION SOX NO. BOX E 06 ZIP CODE | BEGINNING Y | Pri | esent DING YEAR | 5 576-0845 8/3/ |
| I A PRIVATE ON B. FEDERALL | (Specify, IS YEARS OF D. O. O. STATE | OPERATION 1 SOX NO. BOX E | OF COUNTY Anders | Pro | esent DING YEAR GITELEP (6] | # 576-0845 8/ 3 / |
| I A PRIVATE ON B. FEDERAL: IF. OTHER: IA FACILITY STATUS (Chock one) IX. ACTIVE II B. INACTIVE II C. UNKNOWN IV. NOTIFIER INFORMATION OI NOTIFIER NAME (Company name) U.S. Department of Energy OA CITY Oak Ridge OB CONTACT NAME | (Specify, 15 YEARS OF CONTROL OF STATE | OPERATION SOX NO. BOX E 08 ZIP CODE 37831 | 07 COUNTY Anders | Profession | esent DINGYEAR COSTELEP (61 COSTATE | #ONE NUMBER 5 576-0845 8/3 / MONTH DAY Derations |
| I A PRIVATE ON B. FEDERAL: IF COTHER: IN A ACTIVE II B. INACTIVE II C. UNKNOWN IV. NOTIFIER INFORMATION OF NOTIFIER NAME (Company name) U.S. Department of Energy OA CITY Oak Ridge | (Specify, 15 YEARS OF CONTROL OF STATE | OPERATION SOX NO. BOX E 08 ZIP CODE 37831 | 07 COUNTY Anders | Pro | esent DINGYEAR COSTELEP (61 COSTATE | #ONE NUMBER 5 576-0845 8/3 / MONTH DAY Derations |
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| DEFORMATE ON B. FEDERAL: DEFORMATION OF ACTIVE DELINACTIVE DELINKNOWN IV. NOTIFIER INFORMATION OF NOTIFIER NAME (Company name) U.S. Department of Energy OAK Ridge OB CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Componication Process (ITEMS) | (Specify, (Specify, 15 YEARS OF P. O. OSSTATE TN | OPERATION BOX E OSZIP CODE 37831 10 CONT. | or county Anders ACT TITLE DO | Profession | esent DINGYEAR COSTELEP (61 COSTATE | #ONE NUMBER 5 576-0845 8/3/ MONTH DAY Derations |
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Tennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| | | | | | | | | I. IDENTIFICATION | ATION |
|---|-----------------|---|--|---|--|------------------------------------|--|---------------------------------|-----------------------|
| PART 2.WA | ASTE INFORM | PABT 2. WASTE INFORMATION—continued | | | | | | DI DISPOSAL FACILITY ID NO | ACILITY ID NO. |
| | MACTES | TAILE WASTES (Batarana Hazardous Waste Regulations | - | or Code Numbers) | | | | N/A | |
| II. HAZARIDU DI HAZARDOUS WASTE CODE | 02 SU | 02 SUBSTANCE NAME | | 04 THEATMENT METHOD (Ref. Process Codes) | 05 STORAGEDISPOSAL METHOD (Ref. Process Codes) | 06 AMOUNT DISPOSED PER MONTH | 07 UNIT OF MEASURE | 06 CONCENTRATION AS DISPOSED | 09 UNIT OF MEASURE |
| | New Hope Pond | Pond Sediment | Plant Operations | T02 | 504/080 | (See flot | е Ветом) | | |
| | | | | | | | | | |
| | - | | | | | | | | |
| | 10+0 | | | | | | | | - |
| | חופ | | 1 1 | | 1 F | | 4 | | |
| | The total | tal volume of s | The total volume of sediment placed in | the basin is from New Hope | Pond since 1973 | cubic ya In 197 | rus. 3. a | | |
| | primary | y dredging oper | operation was accomplished | | | | | - | |
| | | imon + con | trace amo | following | constituents: | nercury. | PCB. | | |
| | deplete | depleted uranium, and | thorium. | | | | | | |
| | | | | • | ٠ | | | | - |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| TOTAL QUANI | TITY OF HAZARDA | TOTAL QUANTITY OF HAZARDOUS WASTE DISPOSED PER MONTH | = <15,000 | cubic yards | | | | | |
| PROCESS CODES | CODES: | least least | Code | Storage: | Code | Disposal: | | Code | |
| Treatment: TANK SURFACE IMPOUNDMENT INCINERATOR | U | Code 18 similaris Code 19 similaris of bic 103 processes no bescribe the provided PAI | OTHER (Use for physical, chemical, 104 therms or blotogical freatment processes not occurring in tanks, surface impoundments or inclinateis. Describ the process in the space provided PART 2 III) | CONTAINER (borne), drum, etc) TANK WASTE PILE SURFACE IMPOUNDMENT 0111ER (Describe process in the space | frum, e1c) \$01 \$02 \$03 WENT \$04 cess in the spece \$05 | | INJECTION WELL LANDFILL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUNDMENT OTHER (Describe process In space provided; Part 2 III) | D26 D80 D81 D83 D83 | |

Tennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| | | | I. IDENTIFICA | LTION |
|--|--|---|---|-------------------------------|
| PART 2-WASTE IN | FORMATION—Continued | | 01 FACILITY ID | 10. |
| | | | N/A | |
| STREAMATION OF PRO | CESS CODES, PARTICULARLY " | OTHER" CODES USED IN | PART 2-II. | |
| n n n n n n n n n n n n n n n n n n n | sin is used as a decan Hope Pond. When the | ting basin and co | ntainment basin f | or the _ · · |
| PART 3—DESCRIPT | IVE INFORMATION | | | |
| I. FACILITY DESCRIPTION | N | | | |
| Sediment is pumper | r OPERATION, CLOSURE, COVER, ETC. d into or transported e Pond. Remaining wat n cover over the sedim | er evaporates/per | colates. Closuit | us by gravity will include |
| The facility is u | surity (FENCING, LIGHTING, ETC.) WHERE sed periodically (year ty is fenced, posted, | ila) iu confinerii | on with dredging (| of New Hope |
| II. CONTAINMENT | | | | |
| OF DESCRIPTION OF DRUMS DI | FING LINEDS RARRIERS, LEACHATE COL | | | · · · · |
| The location of t | the Chestnut Ridge Bas , leachate collection | LECTION AND TREATMENT SYST in prevents surfa , or treatment ar | ce runoff from ent | tering the |
| The location of t basin. No liners | he Chestnut Ridge Basi | in prevents surfa | ce runoff from ent | tering the |
| The location of t basin. No liners | he Chestnut Ridge Bass, leachate collection | in prevents surfa | ce runoff from ent | tering the |
| The location of to basin. No liners III. ACCESSIBILITY O1 WASTE EASILY ACCESSIBLE: O2 COMMENTS | the Chestnut Ridge Basis, leachate collection, | in prevents surfa , or treatment ar | ce runoff from en | tering the |
| The location of to basin. No liners III. ACCESSIBILITY O1 WASTE EASILY ACCESSIBLE: O2 COMMENTS | he Chestnut Ridge Bass, leachate collection | in prevents surfa , or treatment ar | ce runoff from en | tering the |
| The location of tobasin. No liners III. ACCESSIBILITY OT WASTE EASILY ACCESSIBLE OZ COMMENTS Restricted access | the Chestnut Ridge Basis, leachate collection, | in prevents surfa , or treatment ar ed, Government la | ce runoff from enge used. | tering the |
| The location of tobasin. No liners III. ACCESSIBILITY OF WASTE EASILY ACCESSIBLE OF COMMENTS Restricted access PART 4—DEMOGR | the Chestnut Ridge Base, leachate collection, sexposed at surface?: Mayes I No through fenced, poster | in prevents surfa , or treatment ar ed, Government la | ce runoff from enge used. | |
| The location of tobasin. No liners III. ACCESSIBILITY OF WASTE EASILY ACCESSIBLE OF COMMENTS Restricted access PART 4—DEMOGR | He Chestnut Ridge Bases, leachate collection, seposed at surface?! Mayes I No start through fenced, poster APHIC, WATER, AND ENVEROPERTY INFORMATION | in prevents surfa, or treatment ar | ce runoff from enge used. | Y-12 Plant |
| The location of the basin. No liners III. ACCESSIBILITY OF WASTE EASILY ACCESSIBLE OZ COMMENTS RESTRICTED ACCESSIBLE PART 4—DEMOGRA I. DEMOGRAPHIC AND P CT. ESTIMATED TOTAL POPULAT | He Chestnut Ridge Basis, leachate collection, so through fenced, posts APHIC, WATER, AND ENVEROPERTY INFORMATION | in prevents surfa , or treatment ar ed, Government la | ce runoff from enge used. | Y-12 Plant |
| The location of tobasin. No liners III. ACCESSIBILITY O1 WASTE EASILY ACCESSIBLE O2 COMMENTS Restricted access PART 4—DEMOGR. I. DEMOGRAPHIC AND P C1 ESTIMATED TOTAL POPULAT A Residents within 12 mi. radius G2 PROVIDE USGS TOPOGRAPH a. 20 ft. comous G. EMISSING roads. DWI | He Chestnut Ridge Basis, leachate collection, so through fenced, posts APHIC, WATER, AND ENVEROPERTY INFORMATION | ed, Government la | nd. | Y-12 Plant |
| The location of tobasin. No liners III. ACCESSIBILITY O1 WASTE EASILY ACCESSIBLE O2 COMMENTS Restricted access PART 4—DEMOGR. I. DEMOGRAPHIC AND P C1 ESTIMATED TOTAL POPULAT A Residents within 12 mi. radius G2 PROVIDE USGS TOPOGRAPH a. 20 ft. comous G. EMISSING roads. DWI | in Chestnut Ridge Bases, leachate collection, leachate surface? APHIC, WATER, AND ENVEROPERTY INFORMATION FION: S. Zero B. Residents HIC MAP FOR 1 ML RADIUS OF FACILITY Singings and other major structures | ed, Government la | nd. | Y-12 Plant |
| The location of to basin. No liners III. ACCESSIBILITY Of WASTE EASILY ACCESSIBLE OZ COMMENTS RESTRICTED ACCESSIBLE PART 4—DEMOGRA I. DEMOGRAPHIC AND P CT ESTIMATED TOTAL POPULAT A Residents within "2 mi. radius CZ PROVIDE USGS TOPOGRAPH a. 20 ft. contours C. existing roads. Dur C. drinking water inta | inity (Check as applicable) | ed, Government la PRONMENTAL DATA WITHIN 1 THE FOLLOWING. | nd. | Y-12 Plant |
| The location of tobasin. No liners III. ACCESSIBILITY OF WASTE EASILY ACCESSIBLE OZ COMMENTS RESTRICTED ACCESSIBLE PART 4—DEMOGRA I. DEMOGRAPHIC AND P C1 ESTIMATED FOTAL POPULAT A Residents within "2 mi. radius C2 PROVIDE USGS TOPOGRAPH a. 20 ft. contours C. existing roads. Dui C. drinking water inta II. GROUNDWATER OT GROUNDWATER USE IN VICE | che Chestnut Ridge Basin, leachate collection, leachate leachat | ed, Government la PRONMENTAL DATA WITHIN 1 Mr. radius Zero HOWING THE FOLLOWING. | C. No. Employees of the sources available) NEAREST DOWN GRADIENT | Y-12 Plant 6000 |

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Fennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| | | | | I. IDENTIFIC | |
|---|---|--|------------------------------|-----------------------------|------------------------------|
| PART 4—WATER, DEMOGRAPHIC, AN | D ENVIRONMENTAL DAT | A . | | 01 FACILITY ID | NQ. |
| IL GROUNDWATER—Continued | | | | | • |
| 09 DESCRIPTION OF WELLS (Including usage, dept | n, and location—latitude and long | แบบ - เสมโกก | mi, radius) | | |
| No water supply wells loca | | | | cility. | ·- - |
| 10 RECHARGE AREA | | 11 DISCHA | AGE AREA | | |
| YES COMMENTS | | D YES | COMMENTS | | |
| III. SURFACE WATER | | | · | | |
| 01 SURFACE WATER USE (Check one) II A. RESERVOIR. RECREATION DRINKING WATER SOURCE | IRRIGATION. ECONOMICAL IMPORTANT RESOURCES | TA B C'C | Ommercial indus | TRIAL CLO | . NOT CURRENTLY USED |
| 02 POTENTIALLY AFFECTED BODIES OF WATER NAME: | | | | | STANCE TO SITE |
| East Fork Poplar Creek | | | · | _≃ 0 |). 20 (mi) |
| | | • | | | (mi) |
| | | | | • | |
| IV. ENVIRONMENTAL INFORMATION | | | | | |
| 01 PERMEABILITY OF UNSATURATED ZONE (Check | r one; | | | | |
| □ A. 10 ⁻¹ 20 10 ⁻¹ cm/sec (| X 8.10—1010—cm/sec . □ 0 | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | ISSC D. GREAT | ER THAN 10-10-10-11 | lec . |
| 02 PERMEABILITY OF BEDROCK (Cheek one) [] A. IMPERMEABLE (Less than 10=cm/sec | S RELATIVELY IMPERMEAS 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | | RELATIVELY PERMEAS | LE 0. VE (Greater then 1 | RY PERMEABLE 10" cmreet |
| 03 DEPTH TO SEDROCK 04 DEPT < 50 (m) | H OF CONTAMINATED SOIL ZON UNKNOWN | E | 6-7.5 | | • |
| 05 NET PRECIPITATION/YEAR 07 TEN Y | EAR 24 HOUR RAINFALL OF | SITE SLOPE | oirection of si North | TESLOPE | TERRAIN AVERAGE SLOPE < 20 % |
| 09 FLOOD POTENTIAL | • | 11 DISTANC | E TO CRITICAL HABITA | linknow | |
| FACILITY IS IN > 100 YEAR FLOOD P | LAIN | . | (of endengered species | · | <u> </u> |
| 10 DISTANCE TO WETLANDS (5 acre minimum) | <u>> 5</u> (mi) | ENDANG | ERED SPECIES: NO | ne | |
| 2 DESCRIPTION OF FACILITY IN RELATION TO SI | JAROUNDING TOPOGRAPHY | | | | |
| Facility is located near to Creek Valley (910 ft. elevates to the south of Chest | ation) lies to th | t Ridge e north | (1040 ft. el and Bethel V | evation). alley (880 | Bear O ft. elevation) |
| | | | - | | |
| | • | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | • |
| V. PHOTOGRAPHS (Provide copies if re | radily available) | | | | |
| | | SEA DIV | ision | | • |
| 21 TPE II GROUND & AERIAL 02 II | (Name of or | | ndividual contact) | | |
| CO CATES (estimated) 1975 | | Ridge, | | | |
| LATEST PHOTO DATE 1984 | Phone No.: | | | | |

Tennessee Department of Public Health — Division of Solid Waste Management Potential Hazardous Waste Disposal Facility

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| | | | | | 01 | FACILITY ID NO. N/A | |
|---|-------------------|----------|---|----------------------|------------------|------------------------|---------------|
| PART 5-SAMPLE | and field infor | MATION | 4 | | | 14/11 | |
| | | | | | | | |
| I. SAMPLES TAKEN | 01 NUMBER OF | 02 8 | RIEF SUMMARY OF AN | ALYTICAL RESULTS | | | DATES |
| SAMPLE TYPE | SAMPLES TAKE | | informati | on available | upon spe | cific | · |
| GROUNDWATER | | | | On available | apon spe | | |
| SURFACE WATER | | re | equest. | | | | |
| AMBIENT AIR | | | | | | | |
| METHANE | | | | | | | |
| RUNOFF | | | | | | | |
| SOIL | | | | | | • | |
| VEGETATION | | | | | | | |
| OTHER | | | | | | | |
| II. OTHER FIELD DA | TA COLLECTED (| Provide | field measuremen | ts and narrative des | scription of | other field data) | |
| | | | | | | | |
| PART 6—OFF-SITI | E GENERATOR IN | FORMA | _ | pplicable | · | | |
| | | | TION Not a | · | CILITY | | |
| I. OTHER GENERA | | TIFIER'S | TION Not a | · | CILITY | | 02 D + 8 NUM8 |
| I. OTHER GENERAT | CORS WITHIN NO | TIFIER'S | TION Not a | OSING AT THIS FA | | ı. etc; | 02 D + 8 NUM8 |
| I. OTHER GENERAT IT NAME IS STREET ACDRESS (P.O. | FORS WITHIN NO | TIFIER'S | TION Not a S COMPANY DISP 02 D+8 NUMBER 04 SIC CODE | OSING AT THIS FA | | | |
| I. OTHER GENERATION NAME STREET ADDRESS (P.O. | FORS WITHIN NO | TIFIER'S | TION Not a S COMPANY DISP 02 D+8 NUMBER 04 SIC CODE | OSING AT THIS FA | | | 04 SIC CO |
| I. OTHER GENERATION NAME STREET ADDRESS (P.O. SCITY NAME | FORS WITHIN NO | TIFIER'S | TION Not a S COMPANY DISP 02 D + 8 NUMBER 04 SIC CODE | OSING AT THIS FA | (P.O. Box, AFD • | 06 STA* | 04 SIC COS |
| PART 6—OFF-SITI | BOX. AFD #. etc.; | TIFIER'S | TION Not a COMPANY DISP C2 D+8 NUMBER O4 SIC CODE O7 ZIP CODE | OSING AT THIS FA | (P.O. Box, AFD • | 06 STA* | 04 SIC COL |

Sources of Information for this Report

- 1. Company Operation Files
- 2. Exxon NFRRC, "Preliminary Safety Analysis Report," Docket 50-564, 1975.
- 3. McMaster, W. M., "Geologic Map of the Oak Ridge Reservation, Tennessee,"
 Martin Marietta Energy Systems, Inc., Oak Ridge National Laboratory,
 Health Physics Division, Oak Ridge, Tennessee, 1963.
- 4. McMaster, W. M., "Hydrologic Data for the Oak Ridge Area, Tennessee," U. S. Geological Survey, Water Supply Paper 1839-N, 1967.

State of Tennessee — Department of Fubility Mean... Division of Solid Waste Management

Report on Potential Hazardous Waste Disposal Facility

| neport out to contain | | | | | ENTIFICATION |
|--|----------------------|--------------------|----------------------|---|------------------------------|
| art 1 - Facility information and assessm | IENT | • | | or C | N/A |
| L FACILITY NAME AND LOCATION | | | | | |
| 1 FACILITY NAME (Legal, common, or descriptive name of site) | | | | ecific location idi | INTIPIER |
| Y-12 9204-4 Trenches | | | BOX Y | OS COUNTY | 07 COUNTY |
| 3 CITY | | OM STATE TN | 37831 | Anderson | 29 |
| Oak Ridge | - | 1 111 | 37.031 | Ander 5011 | |
| 3 5° 5 8' 5 5" 8 4° | NGITUDE 1 6' 0 8" | - | | | · |
| Facility is located within the Creek Portal. | Y-12 Plan | it Proces | sing Area | south of t | he Bear |
| II. RESPONSIBLE PARTIES | | | | | · |
| 01 OWNER (If known) | | 02 STREET | . Box E | | • |
| U.S. Department of Energy | | P. U. | OS ZIP CODE | OS TELEPHONE NUM | ABER |
| © cm Oak Ridge | | TN | 37831 | (615) 576- | • |
| 07 OPERATOR (If known and different from owner) | | OS STREET | r | | |
| Same as above | | | | | |
| OB CITY | | 10 STATE | 11 ZIP CODE | 12 TELEPHONE NU | MBER |
| 13 TYPE OF OWNERSHIP (Check and) | U. SD | . 0. E. | | C C STATE C | D. COUNTY DE MUNICIPAL |
| E F.OTHER | | ency nemer | | ☐ G.UNKNOWN | · · · · · · · · · · · · |
| | (Specity) | SERATION | 2:0.00 | 1 2020 | |
| 14 FACILITY STATUS (CROCK OND) 12 A ACTIVE Z B. INACTIVE C C. UNKNOWN | 15 YEARS OF O | | 1968 BEGINNING YE | 1 1972 AR ENDINGY | EAR UNKNOWN |
| IV. NOTIFIER INFORMATION | | | | | 23 TELEPHONE NUMBER |
| 01 NOTIFIER NAME (Company name) | 02 STREET OR B | | | 1 | |
| U.S. Department of Energy | P. O. B | | | | 615 576-0845 |
| 04 CITY | 1 40 4 | 06 ZIP CODE | 07 COUNTY | 1 | 8 / 3 / 8 |
| Oak Ridge | TN 3 | 7831 | Anderso | | MONTH GU. |
| R. L. Sleeman | | 10 CONTA | Env | - Oak Rid /ironmental | ge Operations Coordinator |
| 11 SIC CODE AND DESCRIPTION LISTED | <u> </u> | | | | |
| 2819 - Nuclear Weapons Compone | ent Fabric | ation | | | |
| 12 BRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS | PRODUCED, ACTI | VITIES INCLUD | ED. ETC.) | | |
| | | | | | |
| Production of nuclear weapons | component | S | | | |
| | | | | | |
| | | | | | |
| | | | NCER EACH | II TY | |
| PART 2 INFORMATION CONCERNING WAST | es disposed | AT REPER | INCED FACIL | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| I. WASTE STATES, QUANTITIES, AND CHARA | CTERISTICS | at time of | DISPOSAL | | |
| 02 WASTE O | UANTITY AT SITE | | | HARACTERISTICS (C | ineck all inst aboly) |
| Me | must be independ | uantities lesth | | | Coxic |
| A SOUD C SLUDGE FINES C G. GAS APPROX. | TONS | ZU I | _ | • | EP Toxic |
| G COTHER | C YARDS | | - | | omer Uranium |
| (Specify) OR NO. O | F DRUMS | | | | |
| 04 DATES OF WASTE DISPOSAL BY NOTIFER AT ABOVE S | ITE: FROM 19 | 68 | 1972 | | |
| 04 DATES OF WASTE DISPOSAL ST NOTIFER AT ABOVE | | | | | |

Tennessee Department of Public Realth — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| | | | | | | | | | 1. IDENTIFICATION | ATION |
|---|-------------------------------|---|--|--|---|---|--|---|----------------------------------|-----------------------|
| PART 2 - WA | ASTE INFORM | PART 2 - WASTE INFORMATION—continued | | | • | | | | 01 DISPOSAL FACILITY ID NO | ACILITY ID NO. |
| HAZARDC | US WASTES | HAZABDOUS WASTES (Reference Hazardous Waste Regulations in | 12 Waste Regulations | s for Code Numbers) | ibors) | | | | N/N | |
| WASTE CODE | 02 SU | 02 SUBSTANCE NAME | 03 SOURCE OF WASTE (Activity Producing Waste) | | 04 TREATMENT METHOD (Ref. Process Codes) | 05 STORAGERDISPOSAL METHOD (Ref. Process Codes) | 06 AMOUNT DISPOSED PER MONTH | 07 UNIT OF MEASURE | OB CONCENTRATION AS DISPOSED | 09 UNIT OF MEASURE |
| N/A | Misc. Wa | Waste Debris | Plant Operati | tions | N/A | NA/D80 | UNK | OWN | | |
| D002 | Acids | | . Plant Operat | tions | N/A | NA/D80 | UNKU | OWN | | |
| N/A | Uranium Alloys | and Uranium | Plant Operat | tions | N/A | NA/080 | UNKI | NIAO | | |
| | Depleted Uran Contaminated | d Uranium nated Metal | Plant Operat | tions | N/A | NA/D80 | IMK | NMO | | |
| | Enriched | Enriched Uranium Contaminated Metal | Plant Operat | tions | N/A | NA/D80 | UNKNOMN | OWN | | |
| N/A | Organics | S | Plant Operat | tions | N/A | 11A/D80 | IINK | WAO | | |
| • | | | | | | | | | | |
| | | | | | | | | | | - |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL QUANT | IITY OF HAZARD | TOTAL QUANTITY OF HAZARDOUS WASTE DISPOSED PER MONTH == | A MONTH == | 23 Ton | Ton/MO (Approximately | imately) | | | | |
| PROCESS CODES: Italment: TANK SURFACE IMPOUNDMENT INCINERATOR | | Code Tealment 101 OTHER/Use I 102 processes no 103 surface Impo Describe the provided PAI | Treatment OTHER (Use for physical, chemical, thermat or blotogical treatment surface impoundments or inclinatelors. Describe the process in the space provided PART 2 III) | Code 50 104 000 104 00 104 00 104 00 104 00 104 00 104 00 104 00 104 00 104 000 | Slorege: CONTAINER (berret, drum, etc) TANK WASTE PILE SURFACE IMPOUNDMENT OTHER (Describe process in the space | Code 801 802 802 802 803 804 4T 804 805 | DISPOSSI: MJECTION WELL LANDFILL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUND OTHER (Describe pre In space provided; P. | Disposal: INJECTION WELL LANDFILL LANDFILL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUNDMENT OTHER (Describe process in space provided; Part 2 H) | Code D10 D62 D63 D64 | |

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Tennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| | ICODMATION CONTINUE | 1 | I. IDENTIFIC | |
|---|---|---|--|-------------------|
| PART 2—WASTE IN | NFORMATION—Continued | | 01 FACILITY IO | NO. |
| I. EXPLANATION OF PRO | OCESS CODES, PARTICULARLY | "OTHER" CODES USED | IN PART 2-il. | |
| | · | | | |
| | | | | |
| | • | | | |
| | | | | |
| PART 3—DESCRIP | TIVE INFORMATION | | | |
| I. FACILITY DESCRIPTIO | N | | | |
| | of operation, closure, cover. etc. | | | • |
| Trenches were exgrass. | cavated, filled with | waste, covered w | th soil and seeded | d with |
| 02 CURRENT USE AND SITE SEC | CURITY (FENCING, LIGHTING, ETC.) WHER | e applicable. | | |
| Facility is with | nin a fenced, posted, | and locked area. | | |
| II. CONTAINMENT | - | | | • |
| | KING, LINERS, BARRIERS, LEACHATE CO | LLECTION AND TREATMENT SY | STEMS. ETC | |
| | | _ | | |
| There were no li in this facility | iner barrier or leacha ⁄. | te collection/tro | eatment systems us | ed |
| III. ACCESSIBILITY | | - | | |
| 01 WASTE EASILY ACCESSIBLE | (exposed at surface?): | | | |
| 02 COMMENTS | | • | | |
| | | • | | |
| PART 4—DEMOGR | APHIC, WATER, AND EN | VIRONMENTAL DAT | A | |
| FART 1—DEMOGR | A THO, WATER, THE | | | |
| I. DEMOGRAPHIC AND F | PROPERTY INFORMATION | · · | | |
| C: ESTIMATED TOTAL POPULAT | TION | | | W 16 61 |
| | | 7 | | |
| A Residents within % mi radiu | Zero | s within 1 mi. radius Zero | C. No. Employees | 6000 |
| | Zero | S WIEDIN 1 MI. FACIUS | C. No. Employees | 6000 |
| G2 PROVIDE USGS TOPOGRAPH a. 20 ft. contours b. existing roads, but | s Zero 8. Resident | S WIEDIN 1 MI. FACIUS | C. No. Employees | Y-12 Plan 6000 |
| G2 PROVIDE USGS TOPOGRAPH a. 20 ft. contours D. existing roads, but | Zero 8. Resident HIC MAP FOR 1 MI, RADIUS OF FACILITY S Hidings and other major structures | S WIEDIN 1 MI. FACIUS | C. No. Employees | 6000 |
| C2 PROVIDE USGS TOPOGRAPH a. 20 ft. contours D. existing roads, but C. drinking water into | Zero 8. Resident MIC MAP FOR 1 MI, RADIUS OF FACILITY S Iddings and other major structures INES (both groundwater and surface water) | SHOWING THE FOLLOWING. | | 6000 site |
| C2 PROVIDE USGS TOPOGRAPH a. 20 ft. contours b. existing roads, but c. drinking water into | Zero 8. Resident MIC MAP FOR 1 MI, RADIUS OF FACILITY S Iddings and other major structures INES (both groundwater and surface water) | D. COMMER | C. No. Employees C:AL INDUSTRIAL IRRIGATION d other sources available) | 6000 |
| G2 PROVIDE USGS TOPOGRAPH a. 20 ft. contours b. existing roads, but c. drinking water into II. GROUNDWATER 01 GROUNDWATER USE IN VIC D. A. ONLY SOURCE FOR DRIN 02 POPULATION WITHIN 1 MI. | Zero 8. Resident RIC MAP FOR 1 MI, RADIUS OF FACILITY S Iddings and other major structures IRES (both groundwater and surface water) CINITY (Check as applicable) IKING B. DRINKING (Other sources available) C. COMMERCIAL INDUSTRIA (No other water sources av | D. COMMERCIANTE POLICE | CIAL INDUSTRIAL IRRIGATION of other sources evenlable) O NEAREST DOWN GRADIENT | 6000 site |
| G2 PROVIDE USGS TOPOGRAPH a. 20 ft. contours b. existing roads, but c. drinking water into II. GROUNDWATER 01 GROUNDWATER USE IN VIC | Zero 8. Resident HIC MAP FOR 1 MI, RADIUS OF FACILITY S Iddings and other major structures IRES (both groundwater and surface water) INITY (Check as applicable) IKING B. DRINKING (Other sources available) IC. COMMERCIAL INITY (No other water sources av | D. COMMER- | CIAL INDUSTRIAL IRRIGATION of other sources evenlable) O NEAREST DOWN GRADIENT | on site 6000 |

Fennessee Department of Public Health — Division of Solid Waste Management 67 Report on Potential Hazardous Waste Disposal Facility

| | | 1 | LIDENTIFICATION |
|---|---------------------------------------|---|------------------------------------|
| PART 4-WATER, DEMOGRAPHIC, AND ENVIRONME | INTAL DATA | ٥ | N/A |
| II. GROUNDWATER—Continued | | ! | |
| S DESCRIPTION OF WELLS (Including usage, depth, and location—la | litude and longitude—within 1 | mi. redius) | |
| Several monitoring and test wells of There are no water supply wells with | various depths | are located i | n the area. :ility. |
| 10 RECHARGE AREA | 11 DISCHAF | rge area | |
| MYES COMMENTS | XI YES | COMMENTS | |
| II. SURFACE WATER | | | |
| O1 SURFACE WATER USE (Check one) O A. RESERVOIR, RECREATION ORINKING WATER SOURCE IMPORTANT RE | CONOMICALLY C. CO | ommercial industr | RIAL D. NOT CURRENTLY USE |
| POTENTIALLY AFFECTED SODIES OF WATER NAME: East Fork Poplar Creek | | | DISTANCE TO SITE 0.2 (m) |
| | | | (mi) |
| | <u> </u> | | (mi) |
| IV. ENVIRONMENTAL INFORMATION | · · · · · · · · · · · · · · · · · · · | | |
| DI PERMEABILITY OF UNSATURATED ZONE (Check one) | | <u> </u> | |
| •• | sec C.10*** 10 10***cm/ | sec [] D. GREATER | THAN 10-tomisec |
| 22 PERMEABILITY OF BEDROCK (Check one) | | | |
| (Less than 10 cm/sac) (10 to | | relativelý permeable :01 <i>0—cm/1</i> 00) | Greeter than 10" (m/sec) |
| 03 DEPTH TO BEDROCK 04 DEPTH OF CONTAMINAT Unknown | TED SOIL ZONE(ft) | 05 SOIL pm 5-7 | • |
| 06 NET PRECIPITATION/YEAR 07 TEN YEAR 24 HOUR RAIN 54.45 [ini | FALL 08 SITE SLOPE 25 % | DIRECTION OF SITE | ESLOPE TERRAIN AVERAGE SLOPE < 5 % |
| 29 FLOOD POTENTIAL | 11 DISTANCE | TO CRITICAL HABITAT | Unknown (m) |
| FACILITY IS IN > 100 YEAR FLOOD PLAIN | | (of endangered species) | OTIVITOWIT (mi) |
| O DISTANCE TO WETLANDS (5 sere minimum) | _(mi) ENDANGE | FRED SPECIES: None | |
| Facility is located in Bear Creek Va Pine Ridge (1,200 ft. elevation) and | alley (910 ft. e | levation) situ (1,100 ft. e | uated between levation). |
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| A 210700 2 2010 (Davids on the Viscott) | | | |
| /. PHOTOGRAPHS (Provide copies if readily available | | ision | |
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| CS DATES resumated) FARLIEST PHOTO DATE | P. O. Box `Oak Ridge; | TN 37831 | |
| EARLIEST PHOTO DATE 1983 Phor | 10 No.: | | |

Tennessee Department of Public Health — Division of Solid Waste Management Potential Hazardous Waste Disposal Facility

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| | | PART 7—SOURCE | ES OF INFORMATION | FOR | THIS REPORT | Cite specific references, e.g., compan | y files, sample analysis, repol | 78) |
| | See Attachment 1 | | | | | | | |

Sources of Information for this Report

- 1. Company Operation Files
- 2. Exxon NFRRC, "Preliminary Safety Analysis Report," Docket 50-564, 1975.
- 3. McMaster, W. M., "Geologic Map of the Oak Ridge Reservation, Tennessee,"
 Martin Marietta Energy Systems, Inc., Oak Ridge National Laboratory,
 Health Physics Division, Oak Ridge, Tennessee, 1963.
- 4. McMaster, W. M., "Hydrologic Data for the Oak Ridge Area, Tennessee," U. S. Geological Survey, Water Supply Paper 1839-N, 1967.

State of Tennessee — Department of Public Health Division of Solid Waste Management

Report on Potential Hazardous Waste Disposal Facility

| FACILITY NAME AND LOCATION FAGILITY NAME (Legal, common, or descriptive name of site) Y-12 9712 Ravine Disposal Site GUTY Oak Ridge COORDINATES LATITUDE 3 5° 5 9' 3 5" 8 4° 1 4' 4 0" DIRECTIONS TO FACILITY (Starting from nearest public road) Facility is located within Y-12 Plant Are | | ROUTE NO. OR SE BOX Y OS ZIP CODE 37831 | ecific Location is os county Anderson | N/A DENTIFIER 07 COUNTY |
|--|---|--|--|---------------------------|
| FACILITY NAME (Legal, common, or descriptive name of site) Y-12 9712 Ravine Disposal Site GETY Oak Ridge COORDINATES LATITUDE 3 5° 5 9' 3 5" 8 4° 1 4' 4 0" DIRECTIONS TO FACILITY (Starting from nearest public road) Facility is located within Y-12 Plant Architectures. | P. O. | BOX Y | OS COUNTY | or COUNTY |
| Y-12 9712 Ravine Disposal Site Oak Ridge COORDINATES 3 5° 5 9' 3 5" 8 4° 1 4' 4 0" DIRECTIONS TO FACILITY (Starting from nearest public road) Facility is located within Y-12 Plant Are | P. O. | BOX Y | OS COUNTY | or COUNTY |
| Oak Ridge COORDINATES LATITUDE LONGITUDE 3 5° 5 9' 3 5" 8 4° 1 4' 4 0" DIRECTIONS TO FACILITY (Starting from nearest public road) Facility is located within Y-12 Plant Are | 04 STATE | 05 ZIP CODE | | OF COUNTY |
| Oak Ridge COORDINATES LATITUDE LONGITUDE 3 5° 5 9' 3 5" 8 4° 1 4' 4 0" DIRECTIONS TO FACILITY (Starting from nearest public road) Facility is located within Y-12 Plant Are | TN | 37831 | Anderson | COUR _ |
| COORDINATES LATITUDE 3 5° 5 9' 3 5" 8 4° 1 4' 4 0" DIRECTIONS TO FACILITY (Starting from nearest public road) Facility is located within Y-12 Plant Are | | | | 1 |
| Facility is located within Y-12 Plant Ar | | | | · |
| Facility is located within Y-12 Plant Ar | | | | |
| | ea norti | n of the | East Portal | • |
| I. RESPONSIBLE PARTIES | | • | | |
| OWNER (If known) | 02 STREET | | | |
| U.S. Department of Energy | | Box E | | |
| S CTY | OM STATE | 37831 | 615 576- | |
| Oak Ridge | OR STREET | | 1010/070 | |
| 7 OPERATOR (If known and different from owner) | OR STREET | | | |
| Same as above | 10 STATE | 11 ZIP CODE | 12 TELEPHONE N | UMBER |
| DE CITY | 100.210 | 11 23 333 | () | |
| The state of the s | | | | D. C. MINICISAL |
| IS TYPE OF OWNERSHIP (Check one) | O. E. | | | 3 D. COUNTY G E MUNICIPAL |
| F. OTHER: (Specify) | · | | . @ G"nknomu | |
| 16 VEARS OF OPE | RATION | 7042 | 1.1952 | |
| Approxima | | 1943 BEGINNING YE | | YEAR I UNKNOWN |
| IV. NOTIFIER INFORMATION | | | - | 03 TELEPHONE NUMBER |
| 01 NOTIFIER NAME (Company name) 02 STREET OR 801 | | | | (615 576-0845 |
| U.S. Department of Energy P. O. Bo | X E | 07 COUNTY | | OR DATE |
| 04 CITY | 831 | Anderso | n l | 8 / 3 / 8 |
| | | | أسيب والمستوال | ge Operations |
| R. L. Sleeman | | Env | /ironmental | Coordinator |
| 11 SIG CODE AND DESCRIPTION LISTED | tion | | | • |
| 2819 - Nuclear Weapons Component Fabrica | TIES INCLUDE | D. ETC.) | | |
| 12 BRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS PRODUCED, ACTIVI | | | | |
| Production of nuclear weapons components | 3 | · | | |
| | - | • | • | |
| | | | | |
| | <u>, , , , , , , , , , , , , , , , , , , </u> | | | |
| PART 2 INFORMATION CONCERNING WASTES DISPOSED A | | | ILTY | |
| I. WASTE STATES, QUANTITIES, AND CHARACTERISTICS AT | | | | |
| 01 PHYSICAL STATES (Check all lines apply) 02 WASTE QUANTITY AT SITE | outies | 03 WASTE C | HARACTERISTICS (| Check all that apply) |
| A. SOUD Q.E. SLURRY must be independent | nown | □ lgn | nable G | Taxic |
| D S. POWDER, FINES DX.F. LIQUID TONS UTIK | | □ Re | active G | EP Taxe |
| D. OTHER (Specify) OR NO. OF DRUMS | | _ □ ∞ | mosive 💆 | Other Construction Spo |
| | 943 | 1952 A | pproximatel | V |

| M CTOAC | ACTEINED | beindoo MOITENBOOM CTOR | | | | | | | 1. IDENTIFICATION | ATION | -, |
|--|---------------|---|---|----------------------|--|---|--|--|---|-----------------------|----------------|
| II. HAZARD | OUS WAST | II. HAZARDOUS WASTES (Reference Hazardous Waste Regulations | us Waste Regulation | ns for Code Numbers) | nbers) | | | | N/A | A A | · · · |
| 01 HAZARDOUS WASTE CODE | 05 | 02 SUBSTANCE NAME | 03 SOURCE OF WASTE (Activity Producing Waste) | ASTE Waste) | 04 TREATMENT METHOD (Ref. Pracess Codes) | 05 STORAGEADISPOSAL METHOD (Ref. Procese Codes) | OB AMOUNT DISPOSED PER MONTH | 07 UNIT OF MEASURE | 08 CONCENTRATION AS DISPOSED | 09 UNIT OF MEASURE | · - · |
| N/A | Construction | uction Spoil | Plant Operati | tions | N/A | NA/D80 | UNKNOMN | NMO | | | • |
| | Uraniu | Uranium Contaminated | | | | | | | | | . T |
| | Scrap Metal | Metal | | | | | | | | | Т |
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| MAIO MIO | TITY OF HAZAR | TOTAL CHANITY OF HAZARDOUS WASTE DISPOSED PER MONTH == | | UNKNOMN | | | | | | | |
| | 90000 | | | | | | | | | | |
| PROCESS CODES: | • | Code Treatment | | Code Sie | Storege: | Code | Disposat: | | Code | | |
| TANK SURFACE IMPOUNDMENT INCINERATOR | POUNDMENT | 101 OTHER (Use it 102 the met or bio 103 processes not 103 surface important provided in provided PAR | OTHER (Use for physical, chemical, thermal or biological frealment processes not occurring in tents, surface impoundments or inclinators. Describe the process in the space provided. PART 2 III) | 2 | CONTAINER (berref, drum, etc) TANK VANTE PILE SUHFACE IMPOUNDMENT OTHER (Describe process in the space | s, etc) 801 802 803 10 10 the space 805 | INJECTION WELL LAND APPLICATION COEAN DISPOSAL SURFACE IMPOUNDM OTHER (Describe prov | MACLINA WELL LANDFUL LANDFUL CAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUNDMENT OTHER PROSECTION PROCEST A RESERVED | 0 1 2 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | | |
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| | | | I. IDENTIFICA | |
|--|--|----------------------------|----------------------------|---------------------------|
| PART 2—WASTE INF | FORMATION—Continued | | 01 FACILITY IO P | 10. |
| | CESS CODES, PARTICULARLY | OTHER" CORES USED I | | · |
| . EXPLANATION OF PROC | CESS CODES, PARTICULARLY | OTHER CODES COLO | | |
| | | | | • |
| | | | | ì |
| | • | | | |
| | | | | |
| PART 3—DESCRIPTI | VE INFORMATION | | | |
| . FACILITY DESCRIPTION | <u> </u> | | | |
| | OPERATION, CLOSURE, COVER, ETC. | | | • |
| | d with waste, covered | with soil and se | eeded with grass. | |
| , ravine was fille | d with waste, covered | With 3011 and 30 | | |
| 2 CURRENT USE AND SITE SECU | RITY (FENCING, LIGHTING, ETC.) WHERE | APPLICABLE. | | |
| Facility is within | n a fenced, posted, a | and locked area. | | |
| Facility is with | ii a renceu, posteu, c | | | |
| I. CONTAINMENT | _ | | | |
| 1 DESCRIPTION OF DRUMS, DIKI | ng. Liners. Barriers. Leachate Col | LECTION AND TREATMENT SYST | rems. etc. | end in |
| | ers, barrier or leach | nate collection/t | reatment systems of | 1260 III |
| this facility. | | | | |
| II. ACCESSIBILITY | | | | |
| | xposed at surface?): ☐ YES 🛱 NO | | | |
| T WASTE EASILY ACCESSIBLE IN | Aposeo et suiteset. | | | |
| | | | | |
| 2000 | DUIG WATER AND ENV | URONMENTAL DATA | <u>.</u> | |
| PART 4—DEMOGRA | APHIC, WATER, AND ENV | | · | |
| I. DEMOGRAPHIC AND PR | ROPERTY INFORMATION | | | V 12 U 5 o t |
| CT ESTIMATED TOTAL POPULATION | ON: | Zero | | Y-12 Plant 6000 |
| A. Residents within 'a mi. radius, | Zero B. Residents | within 1 mi. radiusZETU | C. No. Employees | on site |
| 22 PROVIDE USGS TOPOGRAPHIC | MAP FOR 1 MI. RADIUS OF FACILITY S | HOWING THE FOLLOWING. | | |
| a. 20 ft. contours o. existing roads, build | ings and other major structures es (both groundwater and surface water) | | | |
| II. GROUNDWATER | | | | |
| 01 GROUNDWATER USE IN VICE | | | CAL INDUSTRIAL IRRIGATION | TX E. NOT USED. UNUSEABLE |
| A. ONLY SOURCE FOR DRINK | (Other sources available) | (Limited | t other sources available) | <u> </u> |
| | C. COMMERCIAL INDUSTRIAL (NO GIREF Water Sources av | LIMHIGATION INADIO | | • |
| 02 POPULATION WITHIN 1 ML R | | 03 DISTANCE TO | NEAREST DOWN GRADIENT | estimate) |
| WHICH IS SERVED BY GROUND | OS DIRECTION OF UPPERMOST | OF DESTH TO ADUIFER | 07 POTENTIAL YIELD | 08 SOLE SOURCE AGUIFE |
| 04 DEPTH TO UPPERMOST AQUIFER D=20 /m | Acuifed Flowedst | OF CONCERN | 3-5GPM GON | O YES TOXNO |

| | | LIDEN | TIFICATION |
|---|--|-------------------------------|---------------------------------------|
| PART 4-WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DAT | 'A | 01 FACIL | N/A |
| II. GROUNDWATER—Continued | | | |
| OS DESCRIPTION OF WELLS (Including usage, depth, and location—latitude and long | ntude-within 1 ml. /edius) | | |
| Several monitoring and test wells of various There are no water supply wells within a 1- | s depths are | located in th | ne area. Cy. |
| 10 RECHARGE AREA | 11 DISCHARGE AREA | | |
| DY YES COMMENTS | TO YES COMME | NTS | |
| III. SURFACE WATER | | | |
| 01 SURFACE WATER USE (Check one) II A. RESERVOIR. RECREATION DRINKING WATER SOURCE IMPORTANT RESOURCES | lly [] C. Commerc | IAL INDUSTRIAL | XI D. NOT CURRENTLY USED |
| potentially affected socies of water name: East Fork Poplar Creek | | | 0.25 (mi) |
| IV. ENVIRONMENTAL INFORMATION | | | |
| OI PERMEABILITY OF UNSATURATED ZONE (Check ane) | | | |
| | C.10** to 10**cm/sec | D. GREATER THAN | 10-*cm/sec |
| OZ PERMEABILITY OF SEDROCX (Check one) O A. IMPERMEABLE S B. RELATIVELY IMPERMEA (Less then 10-cm/sec) (10- to 10-cm/sec) OJ DEPTH TO SEDROCX 04 DEPTH OF CONTAMINATED SOIL 201 | 70-1910-cm/ | iec) (Greet | O. VERY PERMEABLE or then 10" em/sect |
| < 10 Unknown (m) | 5-7 | | · |
| 05 NET PRECIPITATION/YEAR 07 TEN YEAR 24 HOUR RAINFALL 05 5.2 (in) | SITE SLOPE DIR | ECTION OF SITE SLOPE South | TERRAIN AVERAGE SLOPE < 5% |
| 09 FLOOD POTENTIAL FACILITY IS IN > 100 YEAR FLOOD PLAIN | 11 DISTANCE TO CRIT | ngered speciesi | Inknowma |
| 10 DISTANCE TO WETLANDS (5 sere minimum) > 5 (mi) | ENDANGERED SPE | cies: None | |
| 12 DESCRIPTION OF FACILITY IN RELATION TO SURROUNDING TOPOGRAPHY | | - | |
| Facility is located in Bear Creek Valley (Pine Ridge (1,200 ft. elevation) and Chest | 910 ft. elevat mut Ridge (1,1 | cion) situate 00 ft. eleva | ed between ation). |
| | | | |
| | | | |
| | | | |
| | | | • |
| V. PHOTOGRAPHS (Provide copies if readily available) | | | |
| V Y - | HSEA DIVISION | contacti | |
| on DATES (estimated) 1943 Address: | nganization and individual . 0. Box Y_1k Ridge, TN | 37831 | |
| EARLIEST PHOTO DATE 1945 LATEST PHOTO DATE 1984 Rhone No.: | IN NIGGE, IN | | |

| | | | | | L | DENTIFICATION | | |
|--|--------------------------------|-------------------------|---|----------------------------|--------------------|-------------------------|-------------|--|
| PART 5—SAMPLE | and field infor | MATIO | 4 | | 01 | FACILITY ID NO. 11/A | | |
| . SAMPLES TAKEN | | | | | | | | |
| SAMPLE TYPE | 01 NUMBER OF SAMPLES TAKE | 02 8 | BRIEF SUMMARY OF A | NALYTICAL RESULTS | | | 83 | SAMPLING DATES |
| GROUNDWATER | JAMPLES IAKE | | me informati | ion available | upon spe | cific | | |
| SURFACE WATER | | | quest. | | | | | |
| AMBIENT AIR | - | | , | | | | | |
| METHANE | | | | | | | | |
| RUNOFF | | . | <u> </u> | | | | | |
| SOIL | | | | | | | · | |
| VEGETATION | | | | • | | | | |
| OTHER | | | | | | | | |
| | ATA COLI FOTED (| Provide | field measuremen | nts and narrative de | scription of | other field data) | | |
| Information | available upo | on spe | ecific reque | st. | | | | |
| | available upo | | - | PPLICABLE | <u> </u> | | | |
| PART 6—OFF-SIT | E GENERATOR IN | FORMA | TION NOT AF | PPLICABLE | ACILITY | | | - |
| PART 6—OFF-SIT | E GENERATOR IN | FORMA | TION NOT AF | - | ACILITY | | 02 | D+8 NUMBE |
| PART 6—OFF-SIT | E GENERATOR IN | FORMA | TION NOT AF | PPLICABLE | | I, etc) | | |
| PART 6—OFF-SIT | E GENERATOR INITORS WITHIN NOT | FORMA | TION NOT AF COMPANY DISP 02 D+8 NUMBER | PPLICABLE OSING AT THIS FA | | | | D+8 NUMBER |
| PART 6—OFF-SIT OTHER GENERA NAME STREET ADDRESS (P O | E GENERATOR INITORS WITHIN NOT | FORMA | TION NOT AF S COMPANY DISP 02 D+8 NUMBER 04 SIC CODE | OSING AT THIS FA | | | 07 | 04 SIC CODE |
| PART 6-OFF-SIT OTHER GENERA I NAME I STREET ADDRESS (P O | E GENERATOR INITORS WITHIN NOT | FORMA | TION NOT AF S COMPANY DISP 02 D + B NUMBER 04 SIC CODE | OSING AT THIS FA | S(P.O. Box, RFD & | 06 STATE | 07 | 04 SIC CODE |
| PART 6-OFF-SIT | E GENERATOR INITORS WITHIN NOT | FORMA FIFIER'S | TION NOT AF COMPANY DISP 02 D+8 NUMBER 04 SIC CODE 07 ZIP CODE | OSING AT THIS FA | S(P.O. Box, RFD & | 06 STATE | 07 2 | 04 SIC CODE CIP CODE 0 + 8 NUMBER |
| PART 6-OFF-SIT I. OTHER GENERA I NAME I STREET ADDRESS (P.O. I NAME I STREET ADDRESS (P.O. SCITY | E GENERATOR INITORS WITHIN NOT | FORMA FIFIER'S DE STATE | TION NOT AF COMPANY DISP C2 D + 8 NUMBER 04 SIC CODE 02 D + 8 NUMBER 04 SIC CODE | OSING AT THIS FA | S (P.O. Box, RFD s | 06 STATE | 07: 02:0 | 04 SIC CODE THE CODE THE CODE THE CODE OF SIC CODE |

Sources of Information for this Report

- 1. Company Operation Files
- 2. Exxon NFRRC, "Preliminary Safety Analysis Report," Docket 50-564, 1975.
- 3. McMaster, W. M., "Geologic Map of the Oak Ridge Reservation, Tennessee," Martin Marietta Energy Systems, Inc., Oak Ridge National Laboratory, Health Physics Division, Oak Ridge, Tennessee, 1963.
- 4. McMaster, W. M., "Hydrologic Data for the Oak Ridge Area, Tennessee," U. S. Geological Survey, Water Supply Paper 1839-N, 1967.

| Report on Poten | tiai Haz | ardous v | 140.0 | • | | • | 76 |
|---|--|--|--|--|---|---|---|
| nopon on occur | | | | | LIDENT | FICATIO | |
| ART 1 - FACILITY INFORMATION AND ASSES | SMENT | | | | 01 015205 | al facilit | Y 10 NO. |
| A61 11 1 A6161 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | NA | |
| L FACILITY NAME AND LOCATION | | | ROUTE NO. OR S | | CONTINUE | E B | |
| 1 FACILITY NAME (Lags), common, or descriptive name of : | 11(0) | l. | BOX Y | PECIFIC LOCA | ION IOEN IP | ş.r. | |
| Y-12 S-2 Pit | | OASTATE | | OS COUNTY | | 07 COL | INTY . |
| scry Oak Bidge | | TN | 37831 | Ander | son | 551 | 29 |
| Oak Ridge | LONGITUDE | | | | | · | |
| 3 5° 5 8' 4 6" 8 4° | 1 5' 56" | | | | | • | |
| OIRECTIONS TO FACILITY (Starting from nearest public r | ped) | | | | | | |
| Facility is located within the | | t processi | ng area. | | | | |
| Facility is located within the | 1-12 1101 | te process | | | | | |
| IL RESPONSIBLE PARTIES | | | | | | | |
| 11. AESPONSISEE : ATTION | | 02 STREET | | | • | | |
| U.S. Department of Energy | | P. 0 | . Box E | | | | |
| OS CITY | | 04 STATE | 05 ZIP CODE | 06 TELEPHO | | • | |
| Oak Ridge | | TN | 37831 | (615) | 576-0845 |) | |
| 37 OPERATOR (If znown and different from owner) | | OS STREET | Ť | | | | |
| Same as above | | | | | | | |
| 33 CITY | | 10 STATE | 11 ZIP CODE | | redmun en | | |
| | | 1 | | () | | | |
| | | | | | | | |
| 13 TYPE OF OWNERSHIP (Cheer one) | U.S. | D. O. E. | | C C STATE | a 5. co | ב ידאנ | E MUNICIPAL |
| C A PRIVATE OF B FEDERAL | U.S. | D. O. E. | | C C STATE | | ב ידיאנ | E MUNICIPAL |
| 13 TYPE OF OWNERSHIP (Chock one) CLA PRIVATE CA B. FEDERAL: CL F. OTHER: | (Speci | (Agency name) | | | | ב ידית | E MUNICIPAL |
| G A PRIVATE ON B. FEDERAL: G F. OTHER: 14 FACILITY STATUS (Check one) | (Socci | (Agency name) | 1943 | G.UNKN | own . | ב ידיאני | E MUNICIPAL |
| C A PRIVATE CA B. FEDERAL: C F. OTHER: 14 FACILITY STATUS (Chock one) C A ACTIVE CX B. INACTIVE C C. UNKNOW | (Socci | (Agency name) | 1943 | G.UNKN | OWN . | | |
| I A PRIVATE ON B. FEDERAL: IF OTHER: IA FACILITY STATUS (Cheek one) II A ACTIVE ON B. INACTIVE II C. UNKNOW IV. NOTIFIER INFORMATION | (Social 15 YEARS OF | _(Agency name) iry) ROPERATION | | G.UNKN | OWN 051 DING YEAR | PHONE NUM | C UNKNOWN |
| I A PRIVATE ON B. FEDERAL: IF. OTHER: IA FACILITY STATUS (Cheek one) II A ACTIVE ON B. INACTIVE III C. UNKNOW IV. NOTIFIER INFORMATION OT NOTIFIER NAME (Company name) | (Social September 15 YEARS OF N | _(Agency name) ity) FLOPERATION REGENERATION | | G.UNKN | OWN 951 DING YEAR OS TELE | PHONE NUM | Q UNKNOWN |
| I A PRIVATE ON B. FEDERAL: IF FOTHER: IA FACILITY STATUS (Cheek one) II A ACTIVE ON B. INACTIVE III C. UNKNOW IV. NOTIFIER INFORMATION II NOTIFIER NAME (Company name) U.S. Department of Energy | IS YEARS OF N 02 STREET 0 P. O. | _(Agency name) ITY) ROPERATION IR EQX NO. BOX E | | G.UNKN | OWN 951 DING YEAR OS TELE | PHONE NUM | a unknown seer -0845 |
| I A PRIVATE ON B. FEDERAL: IF FOTHER: IA FACILITY STATUS (Cheek one) II A ACTIVE ON B. INACTIVE II C. UNKNOW IV. NOTIFIER INFORMATION OF NOTIFIER NAME (Company name) U.S. Department of Energy 04 CITY | (Social September 15 YEARS OF N | _(Agency name) ity) FLOPERATION REGENERATION | AEGINNING Y | G.UNKN | OWN 051 OING YEAR 03 TELE | PHONE NUM | Q UNKNOWN 18ER -0845 / 3 / 8 |
| I A PRIVATE ON B. FEDERAL: I F. OTHER: I A FACILITY STATUS (Cheek one) II A ACTIVE ON B. INACTIVE III C. UNKNOW IV. NOTIFIER INFORMATION II NOTIFIER NAME (Company name) U.S. Department of Energy OACITY Oak Ridge | IS YEARS OF P. O. | Agency names FOR EQX NO. BOX E 06 ZIP CODE 37831 | arginning Ye | G G.UNKN 19 EAR EN On | OWN 051 OSTELE (6) OSDATI | PHONE NUM 15 576- 8 MONTH | UNKNOWN SEER |
| I A PRIVATE ON B. FEDERAL: I F. OTHER: I A FACILITY STATUS (Cheek one) II A ACTIVE ON B. INACTIVE II C. UNKNOW IV. NOTIFIER INFORMATION II NOTIFIER NAME (Company name) U.S. Department of Energy OACITY Oak Ridge 39 CONTACT NAME | IS YEARS OF P. O. | Agency names FOR EQX NO. BOX E 06 ZIP CODE 37831 | arginning Ye | G.UNKN | OWN 051 OSTELE (6) OSDATI | PHONE NUM 15 576- 8 MONTH | UNKNOWN SEER |
| I A PRIVATE ON B. FEDERAL: If FACILITY STATUS (GREEK ORD) II A ACTIVE ON B. INACTIVE OF C. UNKNOW IV. NOTIFIER INFORMATION II NOTIFIER NAME (Company name) U.S. Department of Energy OA CITY Oak Ridge III CONTACT NAME R. L. Sleeman | IS YEARS OF P. O. | Agency names FOR EQX NO. BOX E 06 ZIP CODE 37831 | arginning Ye | G G.UNKN 19 EAR EN On | OWN 051 OSTELE (6) OSDATI | PHONE NUM 15 576- 8 MONTH | UNKNOWN SEER |
| IA PRIVATE ON B. FEDERAL: IA FACILITY STATUS (GREEK ORD) II A ACTIVE ON B. INACTIVE III C. UNKNOW IV. NOTIFIER INFORMATION II NOTIFIER NAME (Company name) U.S. Department of Energy OAK Ridge II CONTACT NAME R. L. SIEEMAN II SIC CODE AND DESCRIPTION LISTED | IS YEARS OF N 2 STREET O P. O. OS STATE | Agency names FOR EQX NO. BOX E GRECIP CODE 37831 | arginning Ye | G G.UNKN 19 EAR EN On | OWN 051 OSTELE (6) OSDATI | PHONE NUM 15 576- 8 MONTH | UNKNOWN SEER |
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| I A PRIVATE ON B. FEDERAL: IF FOTHER: IA FACILITY STATUS (Cheek one) II A ACTIVE ON B. INACTIVE II C. UNKNOW IV. NOTIFIER INFORMATION II NOTIFIER NAME (Company name) U. S. Department of Energy OAK Ridge II SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compo | OZSTREETO P. O. OSSTATE TN INENT Fabr MS PRODUCED. A | Agency names FY) ROPERATION BOX NO. BOX E OR ZIP CODE 37831 10 CONTA | OF COUNTY Anderso COUNTY Env | G G.UNKN 19 EAR EN On | OWN 051 OSTELE (6) OSDATI | PHONE NUM 15 576- 8 MONTH | UNKNOWN SEER |
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| D A PRIVATE ON B. FEDERAL: D F. OTHER: 14 FACILITY STATUS (Cheek one) D A ACTIVE ON B. INACTIVE D C. UNKNOW IV. NOTIFIER INFORMATION 31 NOTIFIER NAME (Company name) U. S. Department of Energy OAK Ridge 39 CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compo 12 SRIEF DESCRIPTION OF PRODUCTION PROCESS (ITE Production of nuclear weapon PART 2. INFORMATION CONCERNING WAS I. WASTE STATES, QUANTITIES, AND CHAE 31 PHYSICAL STATES (Cheek all their apply) D A. SOLID O B. POWDER, FINES OF GASE O C. SLURRY O WASTE O C. SLURRY O C. WASTE | IS YEARS OF N 15 | Agency names (ry) ROPERATION RED AT REFERE COMMENTS RED AT REFERE | DISPOSAL OF COUNTY Anderso Environment Anderso Environment Envir | ILTY | OWN OSTELE (6 OSDATI Ridge Oftal Coor | PHONE NUM 15 576- 8 MONTH Derationationation | UNKNOWN SEER -0845 / 3 / 8 |
| D A PRIVATE ON B. FEDERAL: D F. OTHER: 14 FACILITY STATUS (Cheek one) D A ACTIVE ON B. INACTIVE D C. UNKNOW IV. NOTIFIER INFORMATION 21 NOTIFIER NAME (Company name) U. S. Department of Energy OAK Ridge 29 CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION USTED 2819 - Nuclear Weapons Compo 12 BRIEF DESCRIPTION OF PRODUCTION PROCESS (ITE Production of nuclear weapon PART 2. INFORMATION CONCERNING WAS I. WASTE STATES, QUANTITIES, AND CHAE 21 PMYSICAL STATES (Cheek all their apply) D A. SOULD D B. POWDER, FINES OF C. SLURRY D C. SLUDGE OR C. | IS YEARS OF N 15 | Agency names ITY) ROPERATION BOX E OSZIP CODE 37831 10 CONTA TICATION CTIVITIES INCLUDE IN TS ED AT REFERE S AT TIME OF | DISPOSAL OR WASTE OF THE PROPERTY OF THE PROP | ILTY HARACTERIST | OWN DING YEAR OSTELE (6) OS DATI | PHONE NUM 15 576- 8 MONTH Derationationation | UNKNOWN SEER -0845 / 3 / 8 |

Report on Potential Hazardous Waste Disposal Facility

| PART 2. W | PART 2. WASTE INFORMATION | RMATION —continued | | | | | | - | 1. IDENTIFICATION 01 DISPOSAL FACILITY ID NO | ATION ACILITY ID NO. |
|--|--|--|--|------------------------------|---|---|---|--|---|---|
| H HAZABE | OUS WAST | II HAZARDOUS WASTES (Reference Hezerdous Waste Regulations for | is Waste Regulations | for Code Numbers) | bors) | | | | | |
| OI HAZARDOUS WASTE CODE | 05 | 02 SUBSTANCE NAME | 03 SOUNCE OF WASTE (Activity Producing Waste) | | 04 TREATMENT 0 METHOD (Ref. Pracess Codes) | 05 STORAGE/DISPOSAL METHOD (Ref. Process Codes) | 08 AMOUNT DISPOSED PER MONTH | O7 UNIT OF MEASURE | 08 CONCENTRATION AS DISPOSED | 09 UNIT OF MEASURE |
| D002 | Corrosi | Corrosive liquids | Plant operations | suc | T02 | S04/D80 | Unkr | own | | |
| F001 | Halogenated | ated solvents | Plant operations | ns | T02 | S04/D80 | Unkn | own | | |
| F003 | Non Hal | Non Halogenated solvent | 8 Plant operation | ions | 102 | S04/D80 | Unkr | own | | |
| | | | | | | | | | | |
| | | | | • | | | | | | |
| | | | | | | | | | | |
| | NOTE: | It is likely the facility. Recognition Recognition Recognition Recognition Recognition Recognition Research Res | e above subs rds are not ed, stored, | es may lable t dispose | nave been to substantind at this fa | reated, stored ate the substa acility. | , and dis | posed at he quant | this Ity of | |
| | | | | | | | | | | - |
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| | | | | | | | | | | |
| | | | | | | | | | | |
| 101AL QUAP | THIY OF HAZAI | TOTAL QUANTITY OF HAZARDOUS WASTE DISPOSED PER MONTH | MONTH == | Unknown | | | | | - | |
| PROCES | PROCESS CODES: | | | Code Stor | Storage: | Code | Disposel: | | Code | |
| Frestment: TANK SUBFACE IN INCINERATE | fresiment: Tank SURFACE IMPOUNDMENT INCINERATOR | Code Heatman 101 Other (Use I 102 processes no 103 processes no 104 provided PAI | Iteminani OttieRibse for physical, chemical, thermal or biological trealment processes not occurring in lenhs, surface impoundments or incinerators. Describe the process in the space provided. PART 2 III) | | CONTANNER (berret, drum, etc) TANK TANK ANSTE PILE SURFACE IMPOUNDMENT OTHER (Describe process in the space | 501 802 803 803 804 H the space 805 | INJECTION WELL LANDFILL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUND OTHER (Describe pri | INJECTION WELL LANDFALL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUNDMENT OTHER (Describe process in space provided; Part 2 III) | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | |
| | | | | | | | | | | *************************************** |

| | | _ | | Ì | LIDENTIFIC | |
|--|--------------------------|--------------------|--|--|----------------------|-------------------------------------|
| PART 2—WASTE INFORMATION | 4—Continue | 3 | | | 01 FACILITY I |) NO. |
| | | | | | N | IA |
| III. EXPLANATION OF PROCESS CODES. | PARTICULARLY | "OTHER" | CODES USED | IN PART 2-II. | | |
| | | | | | | |
| • | | | | | | |
| | | | | | | |
| - | | | | | | |
| | | | | | | |
| PART 3—DESCRIPTIVE INFORM | ATION | | | | | ٠. |
| I. FACILITY DESCRIPTION | | | | | | |
| 01 DESCRIPTION OF METHOD OF OPERATION, CLOS | SURE, COVER, ETC. | | | | | • |
| The facility was used for the of an unlined earthen impoundment for evaporazation/perco | dment. Liq lation and | uid pro neutral | cess liqui lization. | ds were em At closure | nptied in the lic | ito the impound- quids were |
| 02 CURRENT USE AND SITE SECURITY (FENCING, LIC | shting. ETC.) Wher | ie applicasi | LE. | eutralized | nd seeds | ipoundment filled ed with grass. |
| Facility is within a fence | d nosted. | and loc | | 1611 3011 0 | ina secue | id with grass. |
| ractility is within a rence. | i, postet, | 4.14 | | | | |
| II. CONTAINMENT | - | • | | | | <u> </u> |
| OT DESCRIPTION OF DRUMS, DIKING, LINERS, BARRI | IERS. LEACHATE CO | LLECTION A | NO TREATMENT SY | STEMS. ETC | | • |
| There were no liners, barrathis facility. | iers, or le | achate | collection | /treatment | systems | s used in |
| III. ACCESSIBILITY | | | | | | |
| 01 WASTE EASILY ACCESSIBLE (exposed at surface?) | E YES OL NO | , | | • | * | |
| 32 COMMENTS | | | | | | |
| PART 4—DEMOGRAPHIC, WATE | ER, AND EN | VIRONM | ENTAL DAT | Α | | |
| I. DEMOGRAPHIC AND PROPERTY INFO | BMATION | | • | | | |
| | RMATION | | <u> </u> | | | 6,000 |
| CT ESTIMATED TOTAL POPULATION: | | | 0 | | | on site Y-12 Plant |
| A Residents within 12 mi radius | B. Resident: | S within 1 mi. | radius | 5. | No. Employees | on site 1 12 1 1211C |
| 32 PROVIDE USGS TOPOGRAPHIC MAP FOR 1 MI, RA | LOIUS OF FACILITY S | HOWING TH | E FOLLOWING. | | | • |
| a. 20 ft. contours b. existing roads, buildings and other major | r structures | | | | | • |
| c. Crinking water intakes (both groundwater | r and surface water) | | | | | |
| II. GROUNDWATER | | | | | | |
| E C. COMM | | | /Limite | CIAL INDUSTRIAL d other sources ave | | 💂 E. NOT USED, UNUSEA8 |
| 22 POPULATION WITHIN 1 ML RADIUS OF FACILITY | | | | O NEAREST DOWN | = | |
| WHICH IS SERVED BY GROUND WATER U | (estimate) | 1 | DRINKING WAT | I THE COL | | estimate: |
| 34 DEPTH TO UPPERMOST 05 DIRECTION AQUIFER FL SOUTH | edst | OS DEPT | TH TO AQUIFER ONCERN > 2 () (11) | OF ACUIE | EPM (OXX) | 08 SOLE SOURCE AQUII |

79

Fennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| | | | ; | LIDENTIFIC | CATION |
|--|---|-----------------------------|--|---------------------------------------|-----------------------|
| PART 4-WATER, DEMOGRA | PHIC, AND ENVIRONMENTAL DA | TA | | 01 FACILITY IS | |
| | · | • | | N.A | 1 |
| II. GROUNDWATER—Continu | ed | | | | • |
| | usage, depth, and location-etitude and lo | ngitude—«ithin 1 | mi. redius) | | |
| | | • . • | • • • • • • • | ـــــــــــــــــــــــــــــــــــــ | amen Thoma |
| | and test wells of vari | | | d in the | area. There |
| are no water supply | wells within a one (l |) mile ra | idlus. | | |
| 10 RECHARGE AREA | | 11 DISCHA | 905 ASSA | | |
| C YES COMMENTS | | T YES | COMMENTS | | |
| □ NO | | □ NO | | | |
| III. SURFACE WATER | | | | | |
| O1 SURFACE WATER USE (Check one) | | | | | |
| A RESERVOIR RECREATION | E B. IRRIGATION, ECONOMICA | LLY E C. C | OMMERCIAL INDUST | TRIAL 1 | D. NOT CURRENTLY USED |
| DRINKING WATER SOURCE | IMPORTANT RESOURCES | | | | |
| 02 POTENTIALLY AFFECTED BODIES | DF WATER | | | | · |
| NAME | | | • | 5 | ISTANCETO SITE |
| <u>East Fork Poplar C</u> | reek | | | | 0.05 (mi) |
| - | | | | | (mi) |
| | | | | | (mi) |
| IV. ENVIRONMENTAL INFOR | MATION | | | · · · · · · · · · · · · · · · · · · · | |
| 01 PERMEABILITY OF UNSATURATED | | | | | |
| ☐ A. 10 ¹ 20 10 ¹ en | | C.10 to 10-1cm | ree D. GREATI | mar-ol naht Ra | WSec . |
| 02 PERMEABILITY OF BEDROCK (Chec | | | | | |
| a impermi | ₩ | BLE C. | RELATIVELY PERMEABL | | ery permeable |
| | 10-cm/sec) (10-to 10-/cm/sec) | ەب | 1910=::m/sec) | (Greeter than | 10-1 cm/sec) |
| 03 DEFTH TO SEDROCK | 04 DEPTH OF CONTAMINATED SOIL 20 | NE | 05 SOIL pm | | |
| <10 (m) | <u>Unknown</u> | 1 | <u>5-7</u> | | • |
| 06 NET PRECIPITATION/YEAR | 07 TEN YEAR 24 HOUR RAINFALL | S SITE SLOPE | DIRECTION OF SI | TESLOPE | TERRAIN AVERAGE SLOPE |
| 54.45(in) | 5-2 (in) | < 5 % | South | | ح 5 م |
| | | | E TO CRITICAL HABITAT | | |
| 09 FLOOD POTENTIAL FACILITY IS IN > 100 YEA | # #1 000 N AIN | 11 DISTANC | e io chilical masifal (of endangered species) | | (mi) |
| | | _ | Mo | ne | |
| 10 DISTANCE TO WETLANDS IS sere if | <i>>5</i> (m) | ENDANG | ERED SPECIES:NO | ne | |
| 12 DESCRIPTION OF FACILITY IN REL | TION TO SURROUNDING TOPOGRAPHY | | • | - | |
| Facility is locate | i in Bear Creek Valley | (910 ft | elevation) si | tuated b | etween |
| Pine Ridge (1,200 | ft elevation) and Chest | nut Ridge | e (1,100 ft e | levation |). |
| | | | | | |
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| | | | | | |
| | | | | | • |
| | | | | | |
| V. PHOTOGRAPHS (Provide ca | opies if readily available) | | | | |
| 31 TYPE GROUND & AERIAL | | ISEA Divi | | | |
| | (Name of o | rganization and ir Box Y | ndividual contact) | | |
| CO DATES (estimated) EARLIEST PHOTO DATE | Address: F.U | | | | |
| LATEST PHOTO CATE 1984 | Oak | Ridge, I | N 37831 | | |

| | AND FIELD INFOR | | | | 01 FACILITY ID | - | |
|--|------------------------------|--------|--|---|---------------------|------------|--|
| | | | · | | | NA . | |
| I. SAMPLES TAKEN | 1 | | | • | | | |
| SAMPLE TYPE | 01 NUMBER OF SAMPLES TAKE | 02 | BRIEF SUMMARY OF | ANALYTICAL RESULTS | | | OS SAMPLING DATES |
| GROUNDWATER | | | me informat: | ion available upor | specific re | quest | · · · · · · · · · · · · · · · · · · · |
| SURFACE WATER | | | | | | | |
| AMBIENT AIR | | | | | | | |
| METHANE | | | | | | | |
| RUNOFF | | | | | | | |
| SOIL | | | | ······································ | | | |
| VEGETATION | · | | | | | | |
| OTHER | | | | | | | |
| L OTHER FIELD DA | TA COLLECTED (P | rovide | field measureme | ents and narrative descrip | tion of other field | data) | |
| Informa | tion availabl | e upo | on specific | request. | | | |
| PART 6—OFF-SITE | GENERATOR INF | ORMAT | FION NOT A | PPLICABLE | •• | | |
| PART 6—OFF-SITE | GENERATOR INF | ORMAT | FION NOT A | | Y | 0 | 2 D + 8 NUMBE |
| PART 6—OFF-SITE . OTHER GENERAT NAME | GENERATOR INF | ORMAT | TION NOT A | PPLICABLE POSING AT THIS FACILIT | Y | | 2 D + 8 NUMBE |
| PART 6—OFF-SITE . OTHER GENERAT NAME | GENERATOR INF | ORMAT | TION NOT A | PPLICABLE POSING AT THIS FACILIT | | | 2 D - 8 NUMBE |
| PART 5—OFF-SITE | GENERATOR INFO | ORMAT | COMPANY DISE | PPLICABLE POSING AT THIS FACILIT | os. AFO & etci | 6 STATE O | 04 SIC COD |
| PART 6—OFF-SITE OTHER GENERAT NAME STREET ADDRESS (P.O. 8) | GENERATOR INFO | ORMAT | COMPANY DISP COMPANY DISP 12 D + 8 NUMBER | PPLICABLE POSING AT THIS FACILIT OR NAME GS STREET ADDRESS (P. C. 3 | os. AFO & etci | STATE 0 | 04 SIC COD |
| PART 6—OFF-SITE OTHER GENERAT NAME STREET ADDRESS (P.O. & | GENERATOR INFO | ORMAT | COMPANY DISE 12 D + 8 NUMBER 04 SIC CODE | PPLICABLE POSING AT THIS FACILIT OF NAME COSTREET ADDRESS (P.O. 3) OS CITY | ox. AFO #. etc; | STATE 0 | 34 SIC COD 7 ZIP CODE |
| PART 6—OFF-SITE OTHER GENERAT NAME STREET ADDRESS (P.O. 8) | GENERATOR INFO | ORMAT | COMPANY DISP COMPANY DISP 12 D + 8 NUMBER 04 SIC CODE 07 ZIP CODE | PPLICABLE POSING AT THIS FACILIT OT NAME G3 STREET ADDRESS (P.O. 3) O5 CITY OT NAME | 0x. AFD #. etc; 06 | STATE 0 | 04 SIC CODE 2 04 8 NUMBE 04 SIC CODE |
| PART 6—OFF-SITE OTHER GENERAT NAME STREET ADDRESS (P.O. 8) CITY NAME STREET ADDRESS (P.O. 8) | GENERATOR INFO | STATE | COMPANY DIST COMPA | PPLICABLE POSING AT THIS FACILIT OT NAME OS STREET ADDRESS (P.O. 3) OT NAME OS STREET ADDRESS (P.O. 8) | OX. AFD #. etc: | 6 STATE OF | 04 SIC CODE 7 ZIP CODE 04 SIC CODE 7 ZIP CODE |

Sources of Information for this Report

- 1. Company Operation Files
- 2. Exxon NFRRC, "Preliminary Safety Analysis Report," Docket 50-564, 1975.
- 3. McMaster, W. M., "Geologic Map of the Oak Ridge Reservation, Tennessee,"
 Martin Marietta Energy Systems, Inc., Oak Ridge National Laboratory,
 Health Physics Division, Oak Ridge, Tennessee, 1963.
- 4. McMaster, W. M., "Hydrologic Data for the Oak Ridge Area, Tennessee," U. S. Geological Survey, Water Supply Paper 1839-N, 1967.

DIVISION OF SOME Waste management

Report on Potential Hazardous Waste Disposal Facility

| II. FACILITY INFORMATION AND ASSESSMENT III. FACILITY NAME AND LOCATION 11 FACILITY NAME AND LOCATION 12 FACILITY NAME AND LOCATION 13 FACILITY NAME AND LOCATION 15 FACILITY NAME AND LOCATION 16 FACILITY NAME AND LOCATION 17 FACILITY NAME AND LOCATION 18 FACILITY NAME AND LOCATION 18 FACILITY NAME AND LOCATION 19 FACILITY NAME AND LOCATION 19 FACILITY NAME AND LOCATION 19 FACILITY NAME AND LOCATION 10 FACILITY NAME AND LOCATION AND LOCATION OF THE PROPERTY OF THE PRO | | | | <u> </u> | | LIDENTIF | |
|--|---|--|-----------------------|-----------------|---------------|-------------------|-----------------|
| IL PACILITY NAME AND LOCATION IN PACILITY MARKE LARGE CORRIGIANCE OF SECRETARIAN AREA STREET. ROUTE NO. OR SPECIFIC LOCATION IDENTIFIES EAST FORK POPIET CREEK WATERWAY OAK RIDGE OASTATE OASTATE OASTATE OATHOR TO PACILITY (Manusey from recover packed recoil) The facility is the waterway of East Fork Popiar Creek from mile 0.0 to mile 14.7. IL RESPONSIBLE PARTIES TO COMMER IT SECRETARIAN OASTATE | PART 1 - FACILITY INFORMATION AND ASS | ESSMENT | | | | * - | |
| 1 FACULTY MARK FLAPEL REPORT CROCK WATERWAY EAST FOR POPULAR CROCK WATERWAY GRANT | | | | | | N | Α |
| P. 0. BOX Y OAS ARIGGE COMPONATES CONTROLLED AND PROCESS OF COMPONENT OF PR | FACILITY NAME AND LOCATION | of supi | 02 STREET. | ROUTE NO. OR SI | PECIFIC LOCAT | ON IDENTIFIER | |
| DIRECTIONS TO FACILITY (Statings from newers pubme need) The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. The facility is the water of the form mile 0.0 to mile 0 | | | 1 | | | | |
| Oak Ridge COMPRINTED CONTROL TO FACILITY Classing reas nearest passes reads The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. III. RESPONSIBLE PARTIES COMPANY IN TERMINOR TO FACILITY Classing reas nearest passes reads U.S. Department of Energy OS STANET P. 0. BOX E CONTROL TO NOTHER TO COMPANY DEPARTMENT OF THE PROPERTY OF | | | GA STATE | OS ZIP CODE | ** | | CODE |
| ### DESCRIPTIONS TO PACILITY (Stating Incom recover pushed read) The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. ### AESPONSIBLE PARTIES ### OWNERS IN INCOME. U.S. Department of Energy Department of Energy P. O. Box E | | | TN | 37831 | Ander | son/Roane | 29 |
| The facility is the waterway of East Fork Poplar Creek from mile 0.0 to mile 14.7. II. RESPONSIBLE PARTIES 10 CONNER AT ARROWN U. S. Department of Energy Oak Ridge TN 37831 OSTRET OAK RIDGE OAK PARTE OF CODE OF TELEPHONE NUMBER TN 37831 OSTRET OAK STATE OF CODE OF TELEPHONE NUMBER TN 37831 OAK STATE OF CODE OF TELEPHONE NUMBER TO PERATOR AT HOUSE OF THE CODE OF TELEPHONE NUMBER OF A PRIVATE OF CONNERSHIP CROSS OFFI OAK STATE OF STATE OF CODE OF TELEPHONE NUMBER OF A COTTY OAK STATE OF CODE OF TELEPHONE NUMBER OAK STATE OF CODE OF TELEPHONE NUMBER (1) CODE OAK DO COUNTY OF E MUNICIPAL OF THE CODE OF TELEPHONE NUMBER OF MOTTHER NAME (COMPSON MONE) OAK RIDGE OAK RIDGE OAK STATE OF CODE OAK DO COUNTY OAK RIDGE OAK RIDGE OAK STATE OF CODE OAK DO COUNTY OAK RIDGE OAK RIDGE OAK STATE OAK DO COUNTY OAK STATE OAK DO COUNTY OAK RIDGE OAK STATE OAK DO COUNTY OAK RIDGE OAK STATE OAK DO COUNTY OAK ST | COORDINATES LATITUDE . | LONGITUDE | | | | • | • |
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| U.S. Department of Energy Os STREET OS COUNTY OF COU | II. RESPONSIBLE PARTIES | | l as conse | | | | • |
| OR STATE OR EXPONENT HARMON AND CHARACTERISTICS AT TIME OF DISPOSAL STREET OR STATE OR EXPONENT HARMON AND CHARACTERISTICS AT TIME OF DISPOSAL OR STATE OR EXPONENT HARMON HAR | | | 1 | | | | • |
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| Same as above Same as above Same as above 10 STATE | | | | | | | |
| 13 TYPE OF OWNERSHIP (Chees ann) A PERVATE A PERV | 07 OPERATOR (If known and different from owner) | | OS STREET | 7 | | | |
| 13 TYPE OF OWNERSHIP (Cheek one) C A PRIVATE C A PRIVATE C F. OTHER: C G. L. STATE C G. COUNTY C G. L. STATE C G. COUNTY C G. L. STATE C G. COUNTY C G. TELEPHONE NUMBER C G. T | Same as above | | | | | | |
| A PRIVATE CA & PEDERAL Approxy names C G. UNKNOWN | OS CITY | | 10 STATE | 11 ZIP CODE | | NE NUMBER | |
| A PRIVATE CA & PEDERAL | A THE OF CHINESEMIS (Chees one) | | | | | | |
| 14 FACILITY STATUS (Cheer one) 15 PACTURE XX 8. INACTIVE C C UNKNOWN 16 YEARS DE OPERATION 17 NOTIFIER INFORMATION 27 NOTIFIER INFORMATION 28 STREET OR BOX NO. U. S. Department of Energy 29 OS STATE 37831 Anderson 38 OUNTY 38 SCH C 618 576-0845 39 CONTACT MAME R. L. Sleeman 10 CONTACT TITLE 10 CONTACT | C A PRIVATE C B. FEDERA | . <u>U. S. U.</u> | U. E. | | | | Y E E MUNICIPAL |
| 15 PACILITY STATUS (Cheek one) C A ACTIVE XX & INACTIVE C C UNKNOWN IV. NOTIFIER INFORMATION 21 NOTIFIER NAME (Company name) U. S. Department of Energy Oak Ridge 32 STATE OBJECTOR DOX OF TIME OF OBJECTOR OF THE OBJECTOR OF THE OBJECTOR OF TIME OF OBJECTOR OF TIME OF THE OBJECTOR OF TIME OF TIME OF DISPOSAL 28 CONTACT NAME R. L. STeeman 10 CONTACT TILL DOE - Oak Ridge Operations R. L. STeeman 10 CONTACT TILL DOE - Oak Ridge Operations Environmental Coordinator 11 SIC CODE AND DESCRIPTION USTED 28 19 - Nuclear, Weapons Component Fabrication 12 SRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS PRODUCED, ACTIVITIES INCLIDED, STC.) Production of nuclear weapons components PART 2. INFORMATION CONCERNING WASTES DISPOSED AT REFERENCED FACILITY 1. WASTE STATES, QUANTITIES, AND CHARACTERISTICS AT TIME OF DISPOSAL 21 PAYSICAL STATES (Cheer all liner appry) 12 WASTE QUANTITY AT SITE (Measures of Waste Quantities must be independent) APPROX. TOMA. 217 OR CUBIC YAROS. 13 WASTE CHARACTERISTICS (Cheer all liner appry) C SCHOOL TABLE C Ignitable C Table OR CUBIC YAROS. 14 OF COUNTY OF PRODUCTION OR CUBIC YAROS. 15 OF CUBIC YAROS. 16 OF CUBIC YAROS. 17 OF CUBIC YAROS. 17 OF CUBIC YAROS. 18 OF CUBIC YAROS. | g F. OTHER | | | | C GUNKNO | | |
| IV. NOTIFIER INFORMATION THOUTHER NAME (Company name) U. S. Department of Energy Oak Ridge TN Oak Ridge OB CONTACT NAME R. L. STeeman TISIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Component Fabrication 12 SMIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS PRODUCED, ACTIVITIES INCLUDED, STC.) Production of nuclear weapons components PART 2 INFORMATION CONCERNING WASTES DISPOSED AT REFERENCED FACILILITY L. WASTE STATES, QUANTITIES, AND CHARACTERISTICS AT TIME OF DISPOSAL 11 PAWSICAL STATES (Cheek all Inex 1887Y) Oak COUNTY OF PRODUCTION OF PRODUCTION OF PROCESS (ITEMS PRODUCED ACTIVITIES INCLUDED, STC.) PROVIDENT OF PRODUCTION OF PRODUCTION PROCESS (ITEMS PRODUCED, ACTIVITIES INCLUDED, STC.) PROVIDENT OF PRODUCTION OF PRODUCTION PROCESS (ITEMS PRODUCED, ACTIVITIES INCLUDED, STC.) PROVIDENT OF PRODUCTION OF PRODUCTION PROCESS (ITEMS PRODUCED, ACTIVITIES INCLUDED, STC.) PROVIDENT OF PRODUCTION OF PRODUCTION PROCESS (ITEMS PRODUCED, ACTIVITIES INCLUDED, STC.) PROVIDENT OR OBSERVED OF PRODUCTION PROCESS (ITEMS PRODUCED, ACTIVITIES INCLUDED, STC.) PROVIDENT OR OBSERVED OF PRODUCTION PROCESS (ITEMS PRODUCED, ACTIVITIES INCLUDED, STC.) PROVIDENT OR OBSERVED OF PRODUCTION PROCESS (ITEMS PRODUCED, ACTIVITIES INCLUDED, STC.) PROVIDENT OR OBSERVED OF PRODUCTION PROCESS (ITEMS PRODUCED, ACTIVITIES INCLUDED, STC.) PROVIDENT OR OBSERVED OF PRODUCTION PROCESS (ITEMS PRODUCED, ACTIVITIES INCLUDED, STC.) OB CASE OF PRODUCTION OF PRODUCTION PROCESS (ITEMS PRODUCED, ACTIVITIES INCLUDED, STC.) OB CASE OF PROCESS (ITEMS PRODUCED OF PRODUCED O | A CAMPACTATIS (Character) | 15 YEARS OR OF | ERATION | 1056 | - | | |
| ON NOTIFIER NAME (Company name) U. S. Department of Energy OBSTATE OBSTA | | WN | | | AR ENC | ING YEAR | - UNKNOWN |
| U.S. Department of Energy P. O. Box E GSTATE OSZIPCODE AND OSCINTY OAK Ridge TN 37831 Anderson OSDATE OS JOSDATE OS | IV. NOTIFIER INFORMATION | | | | | | |
| OACHTY OAK Ridge TN 37831 Anderson OBDATE OB / 03 / 03 / 03 / 03 / 03 / 03 / 03 / 0 | OT NOTIFIER NAME (Company name) | 1 | | | | 1 | |
| Oak Ridge TN 37831 Anderson O8 / 03 / MONTH DAY 37831 Anderson OB / 03 / MONTH DAY 37831 Anderson OB / 03 / MONTH DAY 37831 Anderson OB / 03 / MONTH DAY OB / 03 / 03 / MONTH DAY OB / 03 / 03 / MONTH DAY OB / 03 / 03 / MONTH D | U.S. Department of Energy | | | | | | |
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| R. L. Sleeman Environmental Coordinator 11 SIG CODE AND DESCRIPTION USTED 2819 - Nuclear Weapons Component Fabrication 12 SRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS PRODUCED, ACTIVITIES INCLUDED, STG.) Production of nuclear weapons components PART 2 INFORMATION CONCERNING WASTES DISPOSED AT REFERENCED FACILITY 1. WASTE STATES, QUANTITIES, AND CHARACTERISTICS AT TIME OF DISPOSAL 21 PHYSICAL STATES (Cheer all Inst apply) 22 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent) 23 A SOULD C. SLUDGE OF SUBRY OR CUERCY PARCS 29 C. STURRY OR CUERCY PARCS 20 C. STURRY OR CUERCY PARCS 20 C. STURRY OR CUERCY PARCS 20 C. STURRY OR CUERCY PARCS 21 PHYSICAL STATES (Cheer all Inst apply) 23 WASTE CHARACTERISTICS (Cheer all Inst apply) 24 PROCESS (Cheer all Inst apply) 25 ON CUERCY PARCS 26 CASTER MORE CONTROLLED OR CUERCY PARCS 27 PROCESS (Cheer all Inst apply) 28 PROCESS (Cheer all Inst apply) 29 ON CUERCY PARCS 20 PROCESS (Cheer all Inst apply) 29 PROCESS (Cheer all Inst apply) 20 PROCESS (Cheer all Inst apply) 20 PROCESS (Cheer all Inst apply) 20 PROCESS (Cheer all Inst apply) 21 PHYSICAL STATES (Cheer all Inst apply) 22 PROCESS (Cheer all Inst apply) 23 PHYSICAL STATES (Cheer all Inst apply) 24 PROCESS (Cheer all Inst apply) 25 PROCESS (Cheer all Inst apply) 26 PROCESS (Cheer all Inst apply) 27 PHYSICAL STATES (Cheer all Inst apply) 28 PROCESS (Cheer all Inst apply) 29 PROCESS (Cheer all Inst apply) 20 PHYSICAL STATES (Cheer all Inst apply) 20 PHYSICAL STATES (Cheer all Inst apply) 29 PHYSICAL STATES (Cheer all Inst apply) 20 PHYSICAL STATES (Cheer all Inst apply) 20 PHYSICAL STATES (Cheer all Inst apply) 29 PHYSICAL STATES (Cheer all Inst apply) 20 PHYSICAL STATES (Cheer all Inst apply) 21 PHYSICAL STATES (Cheer all Inst apply) 22 PHYSICAL STATES (Cheer all Inst apply) 29 PHYSICAL STATES (Cheer all Inst apply) 20 PHYSICAL S | | | | | | Ridge Ope | |
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| Production of nuclear weapons components PART 2. INFORMATION CONCERNING WASTES DISPOSED AT REFERENCED FACILILITY I. WASTE STATES, QUANTITIES, AND CHARACTERISTICS AT TIME OF DISPOSAL 21 PHYSICAL STATES (Cheer all Iner apply) 22 WASTE QUANTITY AT SITE (Measures of Waste quantities must be independent) 23. SOLID 24. SOLID 25. POWDER, FINES 26. S. LUGUD 27. C. S. LUGUD 28. C. S. LUGUD 29. C. S. LUGUD 20. C. S. LUGUD 20. C. S. LUGUD 20. C. S. LUGUD 21. PROMORE, FINES 22. C. S. LUGUD 23. C. S. LUGUD 24. SOLID 25. C. S. LUGUD 26. C. S. LUGUD 27. C. S. LUGUD 28. C. S. LUGUD 29. C. S. LUGUD 20. C. S. LUGUD 20. C. S. LUGUD 20. C. S. LUGUD 21. PROMORE, FINES 21. C. S. LUGUD 22. C. S. LUGUD 23. C. S. LUGUD 24. S. C. LUGUD 25. C. S. LUGUD 26. C. S. LUGUD 27. C. S. LUGUD 28. C. S. LUGUD 29. C. S. LUGUD 20. C. S. LUGUD 20. C. S. LUGUD 20. C. S. LUGUD 20. C. S. LUGUD 21. PROMORE, FINES 21. C. S. LUGUD 22. C. S. LUGUD 23. C. S. LUGUD 24. S. C. LUGUD 25. C. S. LUGUD 26. C. S. LUGUD 27. C. S. LUGUD 28. C. S. LUGUD 29. C. S. LUGUD 20. C. S. LUGUD 21. PROMORE, FINES 22. C. S. LUGUD 23. PROMORE, FINES 24. S. C. LUGUD 25. C. S. LUGUD 26. S. LUGUD 27. C. S. LUGUD 28. C. S. LUGUD 29. C. S. LUGUD 20. S. LUGUD 21. PROMORE, FINES 22. S. LUGUD 23. PROMORE, FINES 24. S. LUGUD 25. C. S. LUGUD 26. S. LUGUD 27. C. S. LUGUD 28. S. LUGUD 29. C. S. LUGUD 20. S. LUGUD 21. PROMORE, FINES 22. S. LUGUD 23. PROMORE, FINES 24. S. LUGUD 25. C. S. LUGUD 26. S. LUGUD 27. PROMORE, FINES 28. S. LUGUD 29. S. LUGUD 20. S. LUGUD 21. S. LUGUD 22. S. LUGUD 23. S. LUGUD 24. S. LUGUD 25. S. LUGUD 26. S. LUGUD 27. S. LUGUD | | | - | | | | |
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| PART 2. INFORMATION CONCERNING WASTES DISPOSED AT REFERENCED FACILILITY 1. WASTE STATES, QUANTITIES, AND CHARACTERISTICS AT TIME OF DISPOSAL 21 PHYSICAL STATES (Cheex all linet apply) 22 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent) 23. POWDER, FINES Q. F. LIQUID 24. SOLID 25. POWDER, FINES Q. F. LIQUID 26. SLUDGE Q. G. GAS 27 CORCUBIC YARDS Q. F. LIQUID 29. CTHER | Production of nuclear weapo | ons components | | | | | |
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| 1. WASTE STATES, QUANTITIES, AND CHARACTERISTICS AT TIME OF DISPOSAL 21 PHYSICAL STATES (Cheex all linet apply) 22 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent) 3. POWDER, FINES 23 WASTE CHARACTERISTICS (Cheex all linet apply) 4. SOLID 3. POWDER, FINES 26 F. LIQUID APPROX.TONS 217 CR CUBIC YARDS | PART 2 INFORMATION CONCERNING W | ASTES DISPOSED A | T REFERE | nced facili | LTY | | |
| A. SOLID G. S. SLURRY Measures of waste quantities | | | | | | | |
| A SOLID C E SLURRY MATCUTY A SOLID C E SLURRY MATCUTY (Measures of waste quantities must be independent) G E SLURRY APPROX.TONS 217 GR CUBIC YARDS GR CUBIC YARDS | 21 PHYSICAL STATES (Cheex all Inst apply) 22 WAS | ITE QUANTITY AT SITE | | 33 WASTE C | HARACTERISTI | CS (Check all the | Of 2001Y) |
| C C. FLUDGE C G. GAS CUBIC YARDS C REactive C SP Toxic | C & STUREY | (Measures of waste qua must be independed | ntiti es H) | ☐ Igni | table | C Taxic | |
| D 3. CTHER Margury | E C. SLUDGE C. G. GAS | | | C Res | ctive | SP Toxic | |
| | C O. CTHER | | | _ C cor | rasive | Kotner Mer | cury |
| 04 CATES OF WASTE DISPOSAL BY NOTIFER AT ABOVE SITE: FROM 1956 TO | | | | ļ | | | |

lennessee Department of Public Health - Division of Solid waste management

Report on Potential Hazardous Waste Disposal Facility

| PART 2 · W. | ASTE INFOR | PART 2 - WASTE INFORMATION —continued IL HAZARDOUS WASTES (Reference Hazardous Waste Regulations to | us Waste Regulation | ns for Code Numbers) | nbors) | | | | 01 DISPOSAL FACILITY ID NO NA | ALIUN ACILITY ID NO. |
|--|--------------|---|--|----------------------|--|--|------------------------------------|--|---------------------------------|-------------------------|
| UI HAZAHDOUS WASTE CODE | 02 \$ | 02 SUBSTANCE NAME. | D3 SCHRICE OF WASTE (Activity Producing Waste) | Vaste) | 04 INEATMENT METHOD (Ref Piacess Codes) | 05 STOHAGEDISPOSAL METHOD (Nof. Process Codes) | DE AMOUNT DISPOSED PER MONTH | O7 UNIT OF MEASURE | 06 CONCENTRATION AS DISPOSED | 09 UNIT OF MEASURE |
| NA | Mercury | | Plant operation spillage | ions | NA | D84 | See Not | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | - | | | | | |
| | | | | | | | | | | |
| | NOTE: | The loss of mercury was | rcury was due | to infrequ | ent inciden | ral spillage. | | | | |
| | | | | | | | | | | |
| | | | | | | | | | - | |
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| | | | | | | | | | | |
| TOTAL QUANTI | IY OF HAZARD | TOTAL QUANTITY OF HAZARDOUS WASTE DISPOSED PER MONTH | MONTH = See Note | te | | | | | | |
| PROCESS CODES: | CODES: | Gode Trestment | | Code Sto | Storage: | Code | Disposel: | | Code | |
| TANK SURFACE IMPOINDMENT INCINERATOR | | | OTHER (Use for physical, chemical, hearing or photograf treatment processes not occurring that surface impoundments or inclinateless. Describe the process in the space provided PART 2 III) | 104 CO | CONTAINER (berret, drum, etc) TANK WASTE PILE SURFACE IMPOUNDMENT OTHER (Describe process in the space | 602 801 802 803 1 804 In the space 805 | | NJECTION WELL LANDFILL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUNDMENT OTHER (Describe process in space provided; Part 2 HI) | - P80 | |

| | | | | L IDENTIFIC | CATION |
|--|--|----------------|---------------------------------------|--|---------------------------------------|
| PART 2—WASTE IN | NFORMATION—Continued | | | OI FACILITY I | NO. |
| | • | | | N/ | <u> </u> |
| II. EXPLANATION OF PR | ocess codes, particularly | "OTHER" | CODES USED | IN PART 2-II. | |
| use areas at the | r Creek may have receive Y-12 Plant. The meroof East Fork Poplar Cre | cury re | chate and a | runoff from mercui Creek may have acc | ry spill and cumulated on |
| PART 3—DESCRIP | TIVE INFORMATION | | | | |
| I. FACILITY DESCRIPTIO | N | | | | · |
| 01 DESCRIPTION OF METHOD | of operation, closure, cover, etc. | | | | • |
| operations were | lage of mercury occurre initiated at the time ercury were not recover | of the | he mercury occurrence | use areas. Althoes, records indica | ough clean up ated some |
| | CURITY (FENCING, LIGHTING, ETC.) WHER | | £ | | |
| | | | | | |
| | | | | | |
| 11 | | | | | |
| II. CONTAINMENT | iking, Liners, Barriers, Leachate Co | LLECTION AN | O TREATMENT SYS | TEMS, ETC. | |
| | covery operations were | undert | aken at th | e time of the inc | idents. |
| III. ACCESSIBILITY | | | | | · · · · · · · · · · · · · · · · · · · |
| 01 WASTE EASILY ACCESSIBLE 02 COMMENTS | (exposed at surface?): (EXPOSED AT SURFACE?) | | | | |
| PART 4—DEMOGR | APHIC, WATER, AND EN | VIRONM | ENTAL DAT | Α | |
| I. DEMOGRAPHIC AND | PROPERTY INFORMATION | | • | | |
| CT ESTIMATED TOTAL POPULA | | · | | | 6,000 |
| A Residents within 1/2 milyradiu | S. Sesidents | s within 1 mi. | Tagius Unknow | Tì C. No. Employees | on site Y-12 Plant |
| a. 20 ft. contours b. existing roads, but | HIC MAP FOR 1 MI. RADIUS OF FACILITY S | HOWING TH | E FOLLOWING. | | • |
| | kes (both groundwater and surface water) | | | | |
| 11. GROUNDWATER 31. GROUNDWATER USE IN VIC | | | /Limite | CIAL INDUSTRIAL IRRIGATION d other sources evallable) | CRE. NOT USED, UNUSEA |
| 22 POPULATION WITHIN 1 MI. | ^ | | 03 DISTANCE TO ORINKING WAT | D NEAREST DOWN GRADIENT ER WELL UNKNOWN (mi) | (estimate) |
| 04 DEPTH TO UPPERMOST AQUIFER 5-20 (ft) | 35 DIRECTION OF UPPERMOST AQUIFER FLOW SOUTHWEST | 06 DEP1 | TH TO AQUIFER ONCERN | 07 POTENTIAL YIELD OF AQUIFER 3_5 CPM (gpd) | 08 SOLE SOURCE ACT |
| الله مرامها الم | | 1 | · · · · · · · · · · · · · · · · · · · | I | |

| | | | LIDENTIFI | CATION |
|--|--------------------------|-----------------------------------|----------------|--|
| PART 4-WATER, DEMOGRAPHIC, AND ENVIRONMENTAL | . DATA | • | 01 FACILITY IS |) NO. |
| PART VICE IN COLUMN TO THE COLUMN THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN | | | NA | |
| IL GROUNDWATER—Continued | | | | |
| OF DESCRIPTION OF WELLS (including usage, depth, and location—latitude at | nd longitude—within 1 m | nt. radiusi | | - |
| Several monitoring and test wells of va | arious depths | are locate | d in the | area. There |
| are no water supply wells within a one | (1) mile rad | lius of the | racility | • |
| | | | | |
| 10 RECHARGE AREA | 11 DISCHAR | se ar e a Comments | | |
| XX YES COMMENTS | DXYES D NO | COMME! | | |
| □ NO | | | | |
| III. SURFACE WATER | | | | |
| 01 SURFACE WATER USE (Check one) O A RESERVOIR, RECREATION O A RESERVOIR, RECREATION I B. IRRIGATION, ECONOL IMPORTANT RESOURCE | | mmercial indus | XX JAIRTS | D. NOT CURRENTLY USED |
| DRINKING WATER SOUNCE | | | | • |
| 02 POTENTIALLY AFFECTED SODIES OF WATER | | | | DISTANCE TO SITE |
| NAME: | | • | | 0.0 (ms) |
| East Fork Poplar Creek | | | | (mi) |
| | | | - | (mi) |
| | | | | |
| IV. ENVIRONMENTAL INFORMATION | • | | | |
| 01 PERMEABILITY OF UNSATURATED ZONE (Check one) | . C.10 to 10-tem/r | a CO. GREA | TER THAN 10-10 | :m/sec |
| A 10-10 10-10m/sec XD 8.10-10 10-10m/sec | ☐ C'10—16 10 -C1101 | | | |
| 02 PERMEABILITY OF BEDROCK (Check one) | ermeable d'C. | RELATIVELY PERMEA | SLE O. | VERY PERMEABLE In 10-combect |
| (Less than 10 cm/sec) (10 to 10 cm | m/sec) (10- | 1010—cm/sec) | (Greeter int | |
| 03 DEFTH TO BEDROCK 04 DEPTH OF CONTAMINATED S | OILZONE | 05 SOIL AM 5 - 7 | | |
| <10 Unknown | (16) | | - | |
| 05 NET PRECIPITATION/YEAR 07 TEN YEAR 24 HOUR RAINFALL | OB SITE SLOPE | DIRECTION OF | SITE SLOPE | TERRAIN AVERAGE SLOPE |
| 54.45 (in) 5-2 (in) | <u><5</u> % | West | | <u><5 </u> |
| 09 FLOOD POTENTIAL | 11 DISTANCE | E TO CRITICAL HABIT | 'AT | |
| FACILITY IS IN NA YEAR FLOOD PLAIN | | (of endangered spec | | (1711) |
| 10 DISTANCE TO WETLANDS (5 ACTO MINIMUM) >5 IMIL | ENDANG | ERED SPECIES: | None | |
| 2 DESCRIPTION OF FACILITY IN RELATION TO SURROUNDING TOPOGRA | APHY . | | | |
| The Best Project Crock flows north fro | om the Y-12 P | lant then so | outhwester | rly between |
| Blackoak Ridge on the North and East F | Fork Ridge on | the south. | | |
| Brackouk Krage on Swa | | | | |
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| | | | | • |
| W SUCTOR ARLE (Service conies if readily swellenie) | | | | |
| V. PHOTOGRAPHS (Provide copies if readily available) | 12 HSEA Divis | ion | | |
| OT TYPE I GROUND & AERIAL OZ IN CUSTODY OF | IWE OI GLASHITS HOW SING | individual contact) | | |
| OS CATES (estimated) Address: | P.O. Box Y Oak Ridge. | IN 37831 | | |
| EARLIEST PHOTO DATE 1084 Phone No | | | | |

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| | | | | | I. IDENTIFICATION | |
|---|------------------|-------------|---|---|--|---|
| PART 5—SAMPLE | AND FIELD INFOR | RMATIO | N | | 01 FACILITY ID NO. NA | |
| L SAMPLES TAKEN | | | | | . NA | |
| SAMPLE TYPE | 01 NUMBER OF | 02 | Brief Summary of | ANALYTICAL RESULTS | | 03 SAMPLING |
| GROUNDWATER | SAMPLES TAKE | | | | | |
| | | So | me informat: | ion available upo | n specific request | |
| SURFACE WATER | • | | | | | |
| AMBIENT AIR | | | | | | |
| METHANE | | | | | · | |
| RUNOFF | | | | | | |
| SOIL | , | | | | | |
| VEGETATION | | | | | | • |
| OTHER | | | | | | |
| I. OTHER FIELD DA | ATA COLLECTED (I | Provide | field measureme | ents and narrative descrip | otion of other field data) | |
| • | | | | | | |
| | • | | - | | | |
| PART 5—OFF-SITE | GENERATOR INF | FORMA' | TION UNKN | OWN | <u>.</u> | • • • • |
| | | | | OWN POSING AT THIS FACILIT | | |
| | | IFIER'S | | | | 02 D + 8 NUM8 |
| . OTHER GENERAT | ORS WITHIN NOT | IFIER'S | COMPANY DISE | Posing at this facilit | | |
| . OTHER GENERAT | ORS WITHIN NOT | IFIER'S | COMPANY DISF | POSING AT THIS FACILITY | ãos. AFO e. etc; | 94 SIC CO |
| . OTHER GENERAT | ORS WITHIN NOT | IFIER'S | COMPANY DISF | POSING AT THIS FACILITY | ãos. AFO e. etc; | 02 D + 8 NUMB |
| I. OTHER GENERAT I NAME I STREET AODRESS (P.O.) | ORS WITHIN NOT | IFIER'S | COMPANY DISP 02 D + 8 NUMBER 04 SIC CODE | OI NAME O3 STREET ACCRESS (P.O. | ãos. AFO e. etc; | 04 SIC CO. |
| OTHER GENERAT NAME STREET ADDRESS (P.O. & | ORS WITHIN NOT | IFIER'S | 04 SIC CODE | OI NAME GO STREET ADDRESS (P.O. OS CITY | 30x. 3FD #. etc) 08 STATE | 07 ZIP CODE |
| I. OTHER GENERAT | ORS WITHIN NOT | IFIER'S | 04 SIC CODE 07 ZIP CODE | OI NAME OI NAME OS STREET ADDRESS (P.O. OS CITY OI NAME | 30x. 3FD #. etc) 08 STATE | 94 SIC CO |
| I. OTHER GENERAT | ORS WITHIN NOT | IFIER'S | 04 SIC CODE 07 ZIP CODE | OI NAME OI NAME OS STREET ADDRESS (P.O. OS CITY OI NAME | 3oz. AFD #. etc; 06 STATE 30 STATE 30 STATE | 04 SIC COT 07 ZIP CODE 02 O + 8 NUMB |
| I. OTHER GENERAT I NAME I STREET ADDRESS (P.O. & CITY NAME STREET ADDRESS (P.O. & | ORS WITHIN NOT | IFIER'S | 04 SIC CODE 04 SIC CODE 05 ZIP CODE 06 SIC CODE | OI NAME OS CITY OI NAME OS CITY OI NAME OS STREET ADDRESS (P.O.) | 3oz. AFD #. etc; 06 STATE 30 STATE 30 STATE | 07 ZIP CODE 02 D + 8 NUMB |
| I. OTHER GENERAT I NAME I STREET ADDRESS (P.O. A STREET ADDRESS (P.O. A CITY | ORS WITHIN NOT | STATE | OA SIC CODE O4 SIC CODE O5 ZIP CODE O4 SIC CODE O5 ZIP CODE | OT NAME OT NAME OS STREET ADDRESS (P.O.) OT NAME OS STREET ADDRESS (P.O.) OS CITY OS CITY | 3oz. AFD #. etc; 06 STATE 30 STATE 30 STATE | 07 ZIP CODE 02 D + 8 NUMB 04 SIC COD 07 ZIP CODE |
| I. OTHER GENERAT I NAME I STREET ADDRESS (P.O. A STREET ADDRESS (P.O. A CITY | ORS WITHIN NOT | STATE | OA SIC CODE O4 SIC CODE O5 ZIP CODE O4 SIC CODE O5 ZIP CODE | OT NAME OT NAME OS STREET ADDRESS (P.O.) OT NAME OS STREET ADDRESS (P.O.) OS CITY OS CITY | 30x. AFD 9. etc) 06 STATE 30x. AFD 9. etc) 06 STATE | 07 ZIP CODE 02 D + 8 NUMB 04 SIC COT 07 ZIP CODE |

Sources of Information for this Report

- 1. Company Operation Files
- 2. Exxon NFRRC, "Preliminary Safety Analysis Report," Docket 50-564, 1975.
- 3. McMaster, W. M., "Geologic Map of the Oak Ridge Reservation, Tennessee,"
 Martin Marietta Energy Systems, Inc., Oak Ridge National Laboratory,
 Health Physics Division, Oak Ridge, Tennessee, 1963.
- 4. McMaster, W. M., "Hydrologic Data for the Oak Ridge Area, Tennessee," U. S. Geological Survey, Water Supply Paper 1839-N, 1967.

Division of Solid Waste Management

Report on Potential Hazardous Waste Disposal Facility

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|--|--|---|--------|-----------------------------------|------------|--|--|--|-------------|
| PART 1 - FACILITY INFORMATION AND ASSESSM | IENT | | | | | | | CILITY ID N | o. |
| THE MANE AND LOCATION | <u> </u> | | | | | | | | |
| I. FACILITY NAME AND LOCATION 17. FACILITY NAME (Logal, common, or descriptive name of site) | | 02 STR | EET, A | OUTE NO. OR SP | PECIFIC LO | CATION IDENT | FIER | | |
| ** 10 W C-411 Among | | Ρ. | 0. | Box Y | | | | | |
| - D. 61dings 0201-2 9201-5 9720 |)-24, 81- | 10 . STA | TE | OS ZIP CODE | 06 COUNT | | 0 | CODE | |
| Oak Ridge 9204-4, 9201-4, 9202, | 9733-1,9 | 733-2TN | | 37831 | And | erson | | | 29 |
| | MOTTION | 1 | | | | | | | |
| OURSECTIONS TO FACILITY (Starting from nearest public road) | | | | | | | | | |
| The facilities are located within | | 2 Plant | pro | ocess are | a. | | | | |
| The factificies are rounded avoids. | | | • | | | | | | |
| II. RESPONSIBLE PARTIES | | | | | | | | | |
| TOWNER (If known) | | 02 \$7 | | | | | | | |
| U.S. Department of Energy | | Р. | 0. | Box E | | | | | |
| 33 CITY | | 04 ST | - | 37831 | | HONE NUMBER 575-084 | | | |
| Oak Ridge | | TN | | 3/031 | (015 |) 3/0-004 | +3 | | |
| 37 OPERATOR (II known and different from gumer) | | 06 ST | REST | | | | | • | |
| Same as above | | | | | | | | , | |
| OS CITY | | 10 57 | ATE | 11 ZIP CODE | 12 TELEP | mone numbe | R | , | |
| | | | | | (|) | | | |
| 13 TYPE OF OWNERSHIP (Check one) | U.S. | n n F | | | E C. ST | ATE [] 0. 0 | CUNTY | □ E ML | IMIC!DAI |
| | | | | | | | | | 1171WIF # 6 |
| C A PRIVATE & S. FEDERAL | | Agency name | | | | | | | |
| C A PRIVATE ON E PEDERAL | | Agency name | | | G G.UN | | | | _ |
| g F. OTHER | - 1 | Agency name | | 1956 | | | | | · · - |
| - | (Specify | Agency name | | 1956 BEGINNING YE | E G.UN | | | | HKNOWN |
| I F. OTHER: 14 FACILITY STATUS (Cross one) I A ACTIVE XI B. INACTIVE II C. UNKNOWN | (Specify | Agency name | | | E G.UN | ENDING YEAR | | C U | · · - |
| I F. OTHER: 14 FACILITY STATUS (Cheer one) I A ACTIVE X & INACTIVE II C. UNKNOWN IV. NOTIFIER INFORMATION | (Specify | Agency name I OPERATION | | | E G.UN | KNOWN RASY DRIONS CO TE | LEPHON | Q UI | NKNOWN |
| 14 FACILITY STATUS (CROSS ORG) 14 ACTIVE XI & INACTIVE II C. UNKNOWN IV. NOTIFIER INFORMATION 21 NOTIFIER NAME (Company name) | (Specify 15 YEARS OF | Agency name J OPERATION BOX NO. | | | E G.UN | KNOWN RASY DRIONS CO TE | LEPHON | C U | NKNOWN |
| 14 FACILITY STATUS (Choex one) 15 A ACTIVE XI & INACTIVE II C. UNKNOWN 17 NOTIFIER INFORMATION 21 NOTIFIER NAME (Company name) U.S. Department of Energy | (Sective 15 YEARS OF | Agency name J OPERATION BOX NO. | | | E G.UN | KNOWN RASY DRIONS CO TE | 615 S | Q UI | NKNOWN |
| 14 FACILITY STATUS (Cheek one) 15 A ACTIVE XI & INACTIVE II C. UNKNOWN 17 NOTIFIER INFORMATION 21 NOTIFIER NAME (Company name) U.S. Department of Energy 04 CITY | IS YEARS OF 02 STREET OR P. O. | OPERATION BOX E | | BEGINNING YE | G G.UN | ENOING YEAR | LEPHONI 615 S | © UP ENUMBER 576-084 8 /3 | 15 / 84 |
| 14 FACILITY STATUS (Choese offer) 15 A ACTIVE XI & INACTIVE II C. UNKNOWN 17. NOTIFIER INFORMATION 21 NOTIFIER NAME (Company name) U.S. Department of Energy 04 CITY Oak Ridge | IS YEARS OF 02 STREET OR P. O. | OPERATION BOX NO. BOX E OS ZIP COD 37831 | E | or county Anderso | G G.UN | ENGING YEAR COSTE (OS DA | LEPHONI 615 5 ATE | ENUMBER 576-084 8 /3 ONTH 0. | |
| 14 FACILITY STATUS (CROSS OND) 15 A ACTIVE XI & INACTIVE II C. UNKNOWN 17. NOTIFIER INFORMATION 21 NOTIFIER NAME (Company name) U.S. Department of Energy 24 CITY Oak Ridge 29 CONTACT NAME | IS YEARS OF 02 STREET OR P. O. | OPERATION BOX NO. BOX E OS ZIP COD 37831 | E | or county Anderso | G G.UN | ENOING YEAR | LEPHONI 615 5 ATE | ENUMBER 576-084 8 /3 ONTH 0. | 15 / 84 |
| 14 FACILITY STATUS (CROSS ORG) 15 A ACTIVE XI B. INACTIVE III C. UNKNOWN 17 NOTIFIER INFORMATION 21 NOTIFIER NAME (Company name) U.S. Department of Energy OACITY Oak Ridge 29 CONTACT NAME R. L. STeeman | IS YEARS OF 02 STREET OR P. O. | OPERATION BOX NO. BOX E OS ZIP COD 37831 | E | or county Anderso | G G.UN | ENGING YEAR COSTE (OS DA | LEPHONI 615 5 ATE | ENUMBER 576-084 8 /3 ONTH 0. | 15 / 84 |
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| 14 FACILITY STATUS (CROSS OFFICE OFFI OFFI OFFI OFFI OFFI OFFI OFFI OFF | IS YEARS OF IS YEARS OF OZSTREET OR P. O. OSSTATE TN ENT Fabri PRODUCED. AC COMPONEN ES DISPOSE CTERISTICS JANTITY AT SITE ESTURES OF WASHI FRUST OF MOREOUSE | OPERATION SOX NO. BOX E OB ZIP COO 37831 10 CC Cation TIVITIES INC. Its D AT REF | INTAC | Anderso Env | ILTY | ENGING YEAR COST COST K Ridge ental Co | Operational in the second in t | ENUMBER 576-084 8 /3 ONTH O ations nator | 15 / 84 |
| PART 2 INFORMATION OF PRODUCTION PROCESS (ITEMS PART 2 INFORMATION OF PRODUCTION PROCESS (ITEMS PART 2 INFORMATION OF PRODUCTION PROCESS (ITEMS PART 2 INFORMATION CONCERNING WASTE I. WASTE STATES, QUANTITIES, AND CHARACTERS PROWDER, FINES OF FLIQUID APPROX. | IS YEARS OF IS YEARS OF OZ STREET OR P. O. OS STATE TN OS STATE TN COMPONEN C | OPERATION SOX NO. BOX E OB ZIP COO 37831 10 CC Cation TIVITIES INC. Its D AT REF | INTAC | Anderso Env | ILTY | ENGING YEAR OS DA RISTICS (Check | Operation of the same of the s | ENUMBER 576-084 8 /3 ONTH OR ations nator | 15 / 84 |
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negative see the particular distributions and the particular properties of the second Report on Potential Hazardous Waste Disposal Facility

| PART 2 · W | ASTEINFO | PART 2 · WASTE INFORMATION—continued | | | | | | 1. IDENTIFICATION 81 DISPOSAL FACILITY ID NO | ATION ACILITY ID NO. |
|--|--------------|--|---|---|---|---|---|--|---|
| II. HAZARD | OUS WAST | ES (Reference Hazardou | II. HAZARDOUS WASTES (Reference Hazardous Waste Regulations for Gode | Code Numbers) | | | | NA | A. C. |
| UI HAZARDONS WASTE CODE | 03 | 02 SUBSTANCE NAME | 03 SOUPICE OF WASTE (Activity Producing Waste) | 04 INFATMENT METHOD (Ref. Process Codes) | 05 STORAGE/DISPOSAL METHOD (Ref. Process Codes) | 08 AMOUNT DISPOSED PER MONTH | 07 UNIT OF MEASURE | OB CONCENIANTION AS DISPOSED | 09 UNIT OF MEASURE |
| NA | Mercury | Х | Spillage from Plant operations | NA | NA/D80 | See note | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | • | | | | | | | |
| | LON | NOTE: The loss of | mercury was due to | infrequent inc | dental spilla | e. | | | |
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| | | | | | | | | | |
| TOTAL QUANT | ITY OF HAZAR | FOIAL QUANTITY OF HAZARDOUS WASTE DISPOSED PER MONTH | MONTH = See Note | | | | | | |
| PROCESS CODES: | | | Code | Storage: | Code | Disposal: | | Code | |
| Treetment: | - | | | CONTAINER (barret, drum, etc) | | WJECTION WELL | WELL | 920 | |
| TANK SURFACE IMPOUNDMENT INCINERATOR | OURDMENT | 101 OTHER (Use to 102 Mormal or Mod 103 processes not 103 surface Impou | OTHER (Use for physical, chemical, processes to shological freatment processes not occurring in lands, surface impoundments or inclinerators. | TANK WASTE PILE SURFACE IMPOUNDMENT OTHER (Describe process in the space | 503 503 11 504 14 the spece 505 | LANDFILL LAND APPLICATION OCEAN DIGPOSAL SURFACE IMPOUNDM | LANDFILL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOSAL OTHER JOSECHAN | 99 1 2 2 8 90 1 2 2 8 90 1 2 2 8 | |
| | | | | piovideo, rail can | | In space pro | In space provided; Parl 2.111) | - | - |
| | | | | | | | | - | |

| | | | I. IDENTIFIC | ATION |
|---|--|--------------------------------|--|-----------------------------|
| PART 2-WASTE IN | IFORMATION—Continued | | 01 FACILITY ID | NO. |
| | | | N | Α |
| | CESS CODES, PARTICULARLY | OTHER" CODES USED | IN PART 2-II. | |
| III. EXPLANATION OF PRO | CESS CODES, PARTICICATE. | | | |
| | • | | | |
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| | • | | | |
| | | | | |
| PART 3—DESCRIPT | TIVE INFORMATION | | | |
| | | | | |
| I. FACILITY DESCRIPTION | N | | | |
| 01 DESCRIPTION OF METHOD C | F OPERATION, CLOSURE, COVER, ETC. | | | • |
| Incidental spillag recoverable mercur concrete. | ge of mercury occurred ry, the contaminated so | in the mercury was covered was | se areas. After the soil, gravel, | che clean up of asphalt, or |
| C2 CURRENT USE AND SITE SEC | urity (Fencing, Lighting, ETC.) Where | APPLICABLE | | |
| | | | | · · |
| Facility is within | n a fenced, posted, and | I locked alea. | • | |
| II. CONTAINMENT | | • | | |
| 31 DESCRIPTION OF DRUMS, DI | king, Liners, Barriers, Leachate Col | LECTION AND TREATMENT SY | STEMS. ETC. | • |
| There were no line facility. | ers, barriers, or leach | nate collection/ | treatment systems t | used in this |
| III. ACCESSIBILITY | | | | |
| 01 WASTE EASILY ACCESSIBLE | (exposed at surface?): 🔲 YES 💢 NO | | | |
| 02 COMMENTS | | | | |
| | | | | |
| PART 4—DEMOGR | APHIC, WATER, AND ENV | IRONMENTAL DAT | 'A | |
| | | | | |
| 1. DEMOGRAPHIC AND P | ROPERTY INFORMATION | | | |
| CT ESTIMATED TOTAL POPULAT | ION: | | | 6,000 |
| A Residents within to mic radius | 0 8. Residents | within 1 mi. radius 0 | C. No. Employees | on site Y-12 Plant |
| A | IC MAP FOR 1 MI, RADIUS OF FACILITY SI | HOWING THE FOLLOWING. | <u>·</u> | |
| 1. 20 ft. contours | C MAP FOR 1 MI, RADIOS OF FROM 11 ST | | | • |
| 3. Existing roads, Duil 5. Stinking water inta | dings and other major structures kes (both groundwater and surface water) | | | |
| II. GROUNDWATER | | | | |
| OF GROUNDWATER USE IN VIC | NITY (Check 48 applicable) | | | |
| G A ONLY SOURCE FOR DRIN | KING © 8. DRINKING (Other sources eveileble) © C. COMMERCIAL INDUSTRIAL | /Limiti _:RRIGATION | RCIAL INDUSTRIAL IRRIGATION and gifter squices available; | XR. E. NOT USED, UNUSEA |
| • | (No other water sources ava | | a a get pares an airs | |
| 32 POPULATION WITHIN 1 MI. I WHICH IS SERVED BY GROUND | _ · | 03 DISTANCE TO STINKING WATER | TO NEAREST DOWN GRADIENT PER WELL >5 (mil) | lestimatei |
| 04 DEPTH TO UPPERMOST | 05 DIRECTION OF UPPERMOST | 06 DEPTH TO AQUIFER OF CONCERN | 07 POTENTIAL YIELD | 08 SOLE SOURCE AGU |
| _240 m | 50001.0000 | | 1956 | |

| | | | | L IDENTIFI | CATION |
|---|--|-----------------|-----------------------------------|---------------|-----------------------|
| PART 4-WATER, DEMOGRAPHI | C, AND ENVIRONMENTAL DAT | Α . | | 01 FACILITY I |) NO. |
| | • | • | | N | Α |
| II. GROUNDWATER—Continued | | | | - | ٠. |
| 09 DESCRIPTION OF WELLS (Including use | ge. depth, and location—letitude and long | itude—within 1 | mi. radiusi | | |
| Several monitoring and | test wells with various | ous dept | hs are locate | d in the | area. There |
| are no water supply we | | | | | - |
| | | | | | |
| 10 RECHARGE AREA | | 11 DISCHA | AGE AREA | | |
| THE COMMENTS | · | G YES | COMMENTS | | |
| □ NO | | D NO | | | |
| III. SURFACE WATER | | <u> </u> | | | |
| 01 SURFACE WATER USE (Check one) | | | | | |
| | D. B. IRRIGATION, ECONOMICAL | LY E C. C | OMMERCIAL INDUST | RIAL B | D. NOT CURRENTLY USED |
| A. RESERVOIR, RECREATION DRINKING WATER SOURCE | B. IRRIGATION, ECONOMICALI IMPORTANT RESOURCES | | | | |
| 02 POTENTIALLY AFFECTED BODIES OF W | /ATER | | | | • |
| NAME | | | | - | ISTANCETO SITE |
| East Fork Poplar Creel | <u>k</u> | | | 0. | 01 (mi) |
| - | | | | | (mi) |
| | | | | | (mi) |
| IV. ENVIRONMENTAL INFORMAT | TION | | | | |
| OT PERMEABILITY OF UNSATURATED ZONE | | | | | |
| ☐ A 10-10 10-tem/sec | | .10 to 10cm | ner G.GREATE | R THAN 10-'en | · Vsec |
| 02 PERMEABILITY OF SEDROCK (Check on | | .10 10 10 111 | 30.0.0.0 | | |
| A IMPERMEASI | LE B. RELATIVELY IMPERMEABL | | RELATIVELY PERMEASE | | ERY PERMEABLE |
| (Less than 10 | | | to10™cm/sec) | (Greater than | 10- cm/sec) |
| -10 | 04 DEPTH OF CONTAMINATED SOIL ZONE | • | 05 SQIL pm 5 - 7 | | |
| (m | <u>Unknown</u> m | | | } | |
| 06 NET PRECIPITATION/YEAR 0 | 7 TEN YEAR 24 HOUR RAINFALL 08 | SITE SLOPE | DIRECTION OF SIT | ESLOPE | TERRAIN AVERAGE SLOPE |
| 54.45 (im) | | <5 % | South | | <u><5</u> % |
| 09 FLOGD POTENTIAL | • | 11 DISTANCE | E TO CRITICAL HABITAT | <u> </u> | |
| FACILITY IS IN >100 YEAR FO | LOOD PLAIN | | (of endangered species) | ** 1 | (mi) |
| 10 DISTANCE TO WETLANDS IS sere minim | | ENGANC | enen enecice. N | one | |
| | | ENDANG | ERED SPECIES: N | | |
| 12 DESCRIPTION OF FACILITY IN RELATION | n to surrounding topography | | | | |
| Facility is located in | | | | | tween Pine |
| Ridge (1,200 ft. elevat | tion) and Chestnut Ric | lge(1,1) | 00 ft. elevat | ion). | |
| | | | | | |
| | | | | | |
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| | | | | | |
| | • | | | | • |
| V. PHOTOGRAPHS (Provide copie | ns if readily available) | | | | |
| V. PHOTOGRAPHS (Provide copie | 02 IN CUSTODY OF Y-12 HSE | | | | |
| 31 TYPE & GROUND EX AERIAL | 02 IN CUSTODY OF Y-12 HSE | nization and in | ion | | |
| | 02 IN CUSTODY OF Y-12 HSE INAME OF OTER P.O. | nization and in | dividual contact) | | |

| 9 | 1 |
|---|----|
| / | سی |

| | | | | | I. IDENTIFICAT | | |
|---------------------------|------------------------------|----------|------------------|-----------------------------------|---------------------------------------|------------|---|
| PART 5-SAMPLE | and field info | RMATIO | N | | 01 FACILITY ID NO NA |). | |
| IL SAMPLES TAKEN | | | | | | | |
| SAMPLE TYPE | 01 NUMBER OF SAMPLES TAKE | | BRIEF SUMMARY OF | NALYTICAL RESULTS | | | OS SAMPLING DATES |
| GROUNDWATER | SAMPLES IAK | | me informati | on available upo | n specific requ | iest | |
| SURFACE WATER | | | | | | | |
| AMBIENT AIR | • | | | | | | |
| METHANE | | | | | | | - |
| RUNOFF | | | | | | | , <u>, , , , , , , , , , , , , , , , , , </u> |
| SOIL | | | | | | | |
| VEGETATION | | | | | | | · · · · · · · · · · · · · · · · · · · |
| OTHER | | | | | · · · · · · · · · · · · · · · · · · · | | • |
| | TA COLLECTED | Provide | field measuremen | nts and narrative descri | ption of other field de | ita) | |
| PART 6—OFF-SITE | GENERATOR IN | FORMA | TION NOT AF | PLICABLE | | · | |
| LOTHER GENERAT | ORS WITHIN NO | TIFIER'S | COMPANY DISP | OSING AT THIS FACILI | ΤΥ | | |
| 01 NAME | | | 02 D + 8 NUMSER | 01 NAME | | ٥ | 2 D + 8 NUMBE |
| CI STREET ACORESS (P.O. 8 | ox. AFO #. etc.) | | 04 SIC CODE | G3 STREET ADDRESS (P.O. | Sox. AFD 4. etc: | | 04 SIC CODI |
| 05 CITY | | OS STATE | 07 ZIP CODE | 05 CITY | 06 S | TATE 0 | ZIP CODE |
| INAME | | | 02 0 - 8 NUMBER | OI NAME | | ů. | D + 6 NUMBE |
| 3 STREET AODRESS (P.O. Bo | ox, AFO #. etc.) | <u>j</u> | 04 SIC CODE | 03 STREET ADDRESS (P.O. | Box. RFO #. etc; | | 04 SIC CODE |
| S CITY | | 06 STATE | 07 ZIP CODE | 05 CITY | 06.5 | TATE O | ZIP CODE |
| | | <u> </u> | · | | | | |
| PART 7—SOURCES | OF INFORMATIO | ON FOR | THIS REPORT (C | te specific references, e.g., con | npany files, sample analysis | . /eports) | |

Sources of Information for this Report

- 1. Company Operation Files
- 2. Exxon NFRRC, "Preliminary Safety Analysis Report," Docket 50-564, 1975.
- 3. McMaster, W. M., "Geologic Map of the Oak Ridge Reservation, Tennessee,"
 Martin Marietta Energy Systems, Inc., Oak Ridge National Laboratory,
 Health Physics Division, Oak Ridge, Tennessee, 1963.
- 4. McMaster, W. M., "Hydrologic Data for the Oak Ridge Area, Tennessee," U. S. Geological Survey, Water Supply Paper 1839-N, 1967.

DIVISION OF SOILD WASTE MANAGEMENT

Report on Potential Hazardous Waste Disposal Facility

| 9 | 4 |
|---|---|
| (| / |

| | | | | | LIDENTIFICATION | |
|--|--|--|--|--------------------------|---|-------------|
| ART 1 - FACILITY INFORMATION AND ASSESS | SMENT | | | | 01 DISPOSAL FACILITY ID NO. NA | |
| L FACILITY NAME AND LOCATION | | | | | M INCOMPLIER | |
| 7 FACILITY NAME (Legal, common, or descriptive name of sit | 101 | 1 | ROUTE NO. OR SI | PECIFIC LOCATIO | on Iden IIrlen | |
| Bear Creek Waterway | | OASTATE | 05 ZIP CODE | OS COUNTY | 07 COUNTY . | |
| ¤cm Oak Ridge | | TN | 37831 | Anders | | } |
| | BOUTIDAG | | | | | |
| The facility is the waterway fr | om the mo | uth of Bea | r Creek t | o the hea | dwaters of Bear | |
| Creek | ····· | | | | • | |
| OI OWNER (If known) | **** | 02 STREET | | | | |
| U.S. Department of Energy | | P. 0 | Box E | | • | |
| san Oak Ridge | | OA STATE TN | 37831 | 06 TELEPHONE (615) 57 | | |
| 07 OPERATOR (If known and different from owner) | | OS STREET | | | | |
| Same as above | | | | | | |
| OS CITY | | 10 STATE | 11 ZIP CODE | 12 TELEPHON | E NUMBER | |
| 13 TYPE OF OWNERSHIP (Cheex one) O A PRIVATE ON B. FEDERALL O F. OTHER: | | D. O. E. | | C C STATE | OD COUNTY OF EMUN | icipal - |
| | (Seecif | OPERATION | | | | |
| 14 FACILITY STATUS (Cheer one) (E. A. AGTIVE C. B. INACTIVE C. C. UNKNOWN | is reans or | | 1943 BEGINNING YE | AR ENGL | NG YEAR C UNK | NOWN |
| W MATERIAL MERCHANIA | | | | | | |
| IV. NOTIFIER INFORMATION | | | | | AN TEL COMOME NUMBER | |
| OT NOTIFIER NAME (Company name) | 02 STREET OF | | | | (519 575-0845 | |
| U.S. Department of Energy | P. 0. | Box E | 07 COUNTY | | (615 576-0845 | |
| U.S. Department of Energy | | | or county Anderso | n - | (615 576-0845 | / 8 |
| U.S. Department of Energy Oak Ridge SCONTACT NAME | P. O. | BOX E | Anderso | - Oak R | (615 576-0845 08 DATE 08 / 03 | / 8 |
| U.S. Department of Energy Oak Ridge OB CONTACT NAME R. L. Sleeman | P. O. | BOX E OSZIP CODE 37831 | Anderso | - Oak R | (615 576-0845 OS DATE 08 / 03 MONTH DAY idge Operations | / 8 |
| OT NOTIFIER NAME (Company name) U.S. Department of Energy OACITY OAK Ridge O9 CONTACT NAME R. L. Sleeman | P. O. | BOX E OS ZIP CODE 37831 | Anderso | - Oak R | (615 576-0845 OS DATE 08 / 03 MONTH DAY idge Operations | / 8 |
| U.S. Department of Energy Oak Ridge Oak Ridge CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compon | P. O. OSSTATE TN ent Fabri | Box E 08ZIP CODE 37831 10 CONTA | Anderso | - Oak R | (615 576-0845 OS DATE 08 / 03 MONTH DAY idge Operations | / 8 |
| U.S. Department of Energy OACITY Oak Ridge OB CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compon 12 SRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS) | P. O. CONSTATE TN ent Fabres S PRODUCED. AC | BOX E 08 ZIP CODE 37831 10 CONTAI | Anderso | - Oak R | (615 576-0845 OS DATE 08 / 03 MONTH DAY idge Operations | / 8 |
| U.S. Department of Energy Oak Ridge Oak Ridge CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compon | P. O. CONSTATE TN ent Fabres S PRODUCED. AC | BOX E 08 ZIP CODE 37831 10 CONTAI | Anderso | - Oak R | (615 576-0845 OS DATE 08 / 03 MONTH DAY idge Operations | / 8 |
| U.S. Department of Energy OACITY Oak Ridge OB CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compon 12 SRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS) | P. O. CONSTATE TN ent Fabres S PRODUCED. AC | BOX E 08 ZIP CODE 37831 10 CONTAI | Anderso | - Oak R | (615 576-0845 OS DATE 08 / 03 MONTH DAY idge Operations | / 8 |
| U.S. Department of Energy OACITY OAK Ridge SP CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compon 12 SRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS) Production of nuclear weapons | P. O. COSTATE TN ent Fabris PRODUCED. AC. componer | BOX E 06 ZIP CODE 37831 10 CONTAI cation Tivities INCLUDE 1ts | Anderso Env Env | - Oak R | (615 576-0845 OS DATE 08 / 03 MONTH DAY idge Operations | / 8 |
| U.S. Department of Energy OACITY Oak Ridge OB CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compon 12 SRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS) | P. O. COSTATE TN ent Fabris PRODUCED. AC. componer | BOX E 06 ZIP CODE 37831 10 CONTAI cation Tivities INCLUDE 1ts | Anderso Env Env | - Oak R | (615 576-0845 OS DATE 08 / 03 MONTH DAY idge Operations | / 8 |
| U.S. Department of Energy OACITY OAK Ridge SP CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compon 12 SRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS) Production of nuclear weapons | P. O. COSTATE TN Cent Fabris PRODUCED. AC. COMPONER | BOX E 06 ZIP CODE 37831 10 CONTAINTIES INCLUDE 11 STATE 12 AT REFERE | Anderso | - Oak R | (615 576-0845 OS DATE 08 / 03 MONTH DAY idge Operations | / 8 |
| U.S. Department of Energy OAK Ridge OAK Ridge CONTACT NAME R. L. Sleeman Is sic code and description listed 2819 - Nuclear Weapons Compon 2819 - Nuclear Weapons Compon Production of nuclear weapons Production of nuclear weapons I. WASTE STATES, QUANTITIES, AND CHARA 21 PHYSICAL STATES (Chara all the apply) C2 WASTE CO | P. O. COSTATE TN ent Fabris PRODUCED. ACC. COMPONER CES DISPOSE ACTERISTICS COMPONER COMPONE | BOX E 06 ZIP CODE 3783 10 CONTA- 10 CONTA | Anderso | - Oak R | (615 576-0845 OS DATE 08 / 03 MONTH DAY idge Operations | / 8 |
| U.S. Department of Energy OACITY OAK Ridge CONTACT NAME R. L. Sleeman 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compon 12 SRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS Production of nuclear weapons PART 2 INFORMATION CONCERNING WAST I. WASTE STATES (Cheer all that apply) C2 WASTE (Mean) | P. O. OS STATE TN ent Fabris S PRODUCED. AC COMPONEY | BOX E 06 ZIP CODE 37831 10 CONTAIN 1 | Anderso | - Oak R | os DATE 08 / 03 MONTH DAY idge Operations al Coordinator | / 8 |
| U.S. Department of Energy OAK Ridge OAK Ridge OAK Ridge OOK Ridge TO CONTACT NAME R. L. Sleeman SI SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compon 12 SRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS Production of nuclear weapons PART 2 INFORMATION CONCERNING WAST I. WASTE STATES (Cheer all that apply) OF A. SOLID A. SOLID OF A. | P. O. COSTATE TN ent Fabris SPRODUCED. ACCOMPONEY COMPONEY COM | BOX E 06 ZIP CODE 37831 10 CONTAIN 1 | Anderso TITLE DOE Env D. ETC.) NCED FACILI DISPOSAL 03 WASTE CO | - Oak R | 1 615 576-0845 OS DATE 08 / 03 MONTH DAY idge Operations al Coordinator | / 8 |

| II HAZAR | DOUS WAS | PART 2 · WASTE INFORMATION—continued HAZARDOUS WASTES (Reference Hazardous Waste Requietions | s Waste Requisitions for | for Code Numbers) | | | | | 01 DISPOSAL FACILITY ID NO | ACIL IIY ID NO |
|--|-----------------------|---|---|--|---|---|---|---|--|-----------------------|
| UI HAZARDOUS WASTE CODE | ő | 02 SUBSTANCE NAME | 03 SOURCE OF WASTE (Activity Producing Waste) | | D4 TREATMENT METHOD (Ref. Process Codes) | 05 STORAGE/DISPOSAL METHOD (Ref. Process Codes) | D6 AMOUNT DISPOSED PER MONTH | 07 UMIT OF MEASURE | OB CONCENIRATION AS DISPOSED | OB UNIT OF MEASURE |
| NA | See page & Dispose | See page from Treatment & Disposal Facilities | Y-12 S-3 Ponds Burial Grounds | & Y-12 | NA | D84 | UNKNOMN | UNKNOMN | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| TOTAL QUANT | THY OF HAZAF | IOIAL QUANTIIY OF HAZARDOUS WASTE DISPOSED PER MONTH == | IONTH = UNKNOWN | | | | | | | |
| PROCESS CODES: | | Code Treatment | PoO | Sior | Storage: | Code | Disposet: | | Code | |
| TANK SURFACE IMPOINDMENT INCINERATOR | | | OthER (Use for physical, chemical, 104 thermal or biological treatment processes not occurring in tenhs. surface impoundments or incinerators. Describe the process in the space provided PART 2 III) | CONT TANK WASTI SURF/ OTHE | CONTAINER, water, drum, etc) TANK WASTE PH E SURFACE IMPOUNDMENT OTHER IDescribe process in the space | 616) 801 802 803 F 504 In the spece 805 | MAECHON WELL LANDFALL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUNDM OTHER (Describe prod | MAECTION WELL LAND APPLICATION LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUNDMENT OTHER (Percribe process in space provided; Part 2 III) | 0.00 D D D D D D D D D D D D D D D D D D | |

| | | • | I. IDENTIFI | CATION |
|--|---|---------------------------------------|---|-------------------------------|
| PART 2—WASTE ! | NFORMATION—Continued | 1 | 01 FACILITY II | O NO. |
| | | | NA. | |
| II. EXPLANATION OF PR | ocess codes, particularly | "OTHER" CODES USED | IN PART 2-II. | |
| the Y-12 Burial (| ave received leachate, Grounds. Constituents ated on the stream bed | contained in the | off from the Y-12 leachate, seepage | S-3 Ponds and , and runoff |
| | | | | |
| PART 3—DESCRIP | TIVE INFORMATION | | | |
| I. FACILITY DESCRIPTIO | N | | | |
| 01 DESCRIPTION OF METHOD | OF OPERATION, CLOSURE, COVER, ETC. | | | • |
| Not Applicable | | | | |
| 02 CURRENT USE AND SITE SEC | CURITY (FENCING, LIGHTING, ETC.) WHER | e applicable | | |
| | | | * | |
| II. CONTAINMENT | | · · · · · · · · · · · · · · · · · · · | | |
| 01 DESCRIPTION OF DRUMS, DI | king. Liners. Barriers, Leachate Co | llection and treatment sy | STEMS. ETC | |
| Not Applicable | | | | |
| | _ | | · | |
| III. ACCESSIBILITY | | | · | |
| 01 WASTE EASILY ACCESSIBLE 02 COMMENTS | (exposed at surface?): TYES Q NO | | | |
| PART 4—DEMOGR | APHIC, WATER, AND EN | VIRONMENTAL DAT | ſA | |
| L DEMOGRAPHIC AND P | PROPERTY INFORMATION . | | • | <u> </u> |
| CE ESTIMATED TOTAL POPULAT | | | | 6,000 |
| 4. Residents within to mic radius | Unknown 8. Sesidents | s within 1 mi. radius <u>Unkno</u> | WTI C. No. Employees | on site Y-12 Plant |
| 32 PROVIDE USGS TOPOGRAPH | HC MAP FOR 1 MI, RADIUS OF FACILITY S | HOWING THE FOLLOWING. | | |
| • | idings and other major structures nes (both groundwater and surface water) | | | |
| IL GROUNDWATER | | | | |
| 31 GROUNDWATER USE IN VIC | | <i>(Limite</i> ∟:RRIGATION | ICIAL INDUSTRIAL IRRIGATION of other sources available) | TE NOT USED, UNUSEA |
| 02 POPULATION WITHIN 1 ML F WHICH IS SERVED BY GROUND | _ · · · · · · · · · · · · · · · · · · · | 03 DISTANCE T ORINKING WAT | O NEAREST DOWN GRADIENT ER WELL <u>Unknown</u> (mi) | (estimate) |
| 04 DEPTH TO UPPERMOST AQUIFER _5-20 (ft) | 05 DIRECTION OF UPPERMOST AQUIFER FLOW Southwest | 06 DEPTH TO AQUIFER OF CONCERN | 07 POTENTIAL YIELD OF AGUIFER 3-5 CPM (gpd) | 08 SOLE SOURCE AQUI |

| | | | LIDENTIFIC | ATION |
|--|----------------------|-------------------------------------|----------------|----------------------------|
| PART 4—WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DAT | TA | | 01 FACILITY ID | NO. |
| | | | NA_ | |
| IL GROUNDWATER—Continued | • | | | |
| 09 DESCRIPTION OF WELLS (including usage, depth, and location—letitude and long | gitude—within 1 | mL (Edius) | | |
| Several monitor and test wells of various | depths ar | e located nea | er this a | rea. There |
| are no water supply wells within a one (1) | mile rad | ius of this | site. | - |
| | | | | |
| A DECUADOS AREA | 11 DISCHAF | IGE AREA | | |
| 10 RECHARGE AREA RECHARGE COMMENTS | 2 YES | COMMENTS | | |
| E TES COMMENTS | □ NO | | | |
| | | | | |
| III. SURFACE WATER 01 SURFACE WATER USE (Check one) | | | | |
| TI A RESERVOIR RECREATION II B. IRRIGATION, ECONOMICAL | LTA E C' CC | OMMERCIAL INDUST | TRIAL D | D. NOT CURRENTLY USED |
| DRINKING WATER SOURCE IMPORTANT RESOURCES | | | | • |
| 02 POTENTIALLY AFFECTED SOCIES OF WATER | | | | |
| NAME: | | | | ISTANCE TO SITE |
| Bear Creek | | <u> </u> | 0 | . 0 (mi) |
| | <u> </u> | | | (mi) |
| · | | | | |
| IV. ENVIRONMENTAL INFORMATION | | | | |
| 01 PERMEABILITY OF UNSATURATED ZONE (Check one) | | | | |
| | C.10-10 10-1-m/ | sec [] D. GREATI | ER THAN 10-tem | rsec |
| 02 PERMEABILITY OF BEDROCK (Check one) | | | | |
| A. IMPERMEABLE S. B. RELATIVELY IMPERMEAS (Less than 10-tm/sec) (10-to 10-tm/sec) | | RELATIVELY PERMEASI (010—cm/800) | LE BO. VI | ERY PERMEABLE 10 |
| CLOSS THAN TO CHARGE: (10 TO CHARGE) C3 DEPTH TO SEDROCX O4 DEPTH OF CONTAMINATED SOIL ZON | <u> </u> | OS SOIL AM | | |
| <10 Unknown m | | 5-7 | | |
| | | | | 70001111 11100 - 00 01 000 |
| 30 1421 Fraggiritation | SITE SLOPE | DIRECTION OF ST | IESLOPE | TERRAIN AVERAGE SLOPE |
| | <5 % | South | | <u>~_</u> % |
| 09 FLOOD POTENTIAL . | 11 DISTANCE | E TO CRITICAL HABITAT | l Ileberore | (mil |
| facility is in <u>NA</u> year flood plain | _ | (of endangered species | | <u> </u> |
| 10 DISTANCE TO WETLANDS IS sere minimum) >5 (mi) | ENDANGE | ERED SPECIES: N | one | |
| 12 DESCRIPTION OF FACILITY IN RELATION TO SURROUNDING TOPOGRAPHY | | | | |
| The Bear Creek waterway is located in Bear | Crack Wa | 111ev (910 f+ | . elevati | on) situated |
| The Bear Creek waterway is located in Bear between Pine Ridge (1,200 ft. elevation) a | nd Chestr | ut Ridge (1. | 100 ft. e | levation). |
| Decreen Time wings (1,200 It. elevation) a | لما لاحدد حددد | | | • |
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| V. PHOTOGRAPHS (Provide copies if readily available) | | | | |
| 21 TYPE XT GROUND XE ASPIAL OZ IN CUSTODY OF Y-12 PI | ant Dispo | osal Coordina | tor | |
| (Name of or | rganization and if | ndividual contact) | | |
| EARLIEST PHOTO CATE 1900 | O. Box Y Ridge, ' | TN 37831 | | |
| LATEST PHOTO DATE 1984 Phone No.: | | | | |

| | | | | | | I. IDENTIFIC | | |
|---------------------|---------------------------------------|----------|---|--|----------------|----------------------|----------|--------------|
| PART 5-SAMPLE A | ND FIELD INFORM | ATION | | | | 01 FACILITY ID NA | NO. | |
| | · · · · · · · · · · · · · · · · · · · | | | | | I NA | | |
| I. SAMPLES TAKEN | 01 NUMBER OF | | | ANALYTICAL RESULTS | | | | 03 SAMPLI |
| SAMPLE TYPE | SAMPLES TAKEN | C2 8FI | EF SUMMARY OF | ANALYTICAL RESULTS | | | | DATES |
| GROUNDWATER | | Some | informat | ion available | upon re | equest | | |
| SURFACE WATER | | | | | | | | |
| AMBIENT AIR | | | | | | | | |
| METHANE | | | | | | - | | |
| RUNOFF | | | | | | | | |
| SOIL | | | | | | | | • |
| VEGETATION | | | | | | | | |
| OTHER | | | | | | | | |
| II. OTHER FIELD DAT | A COLLECTED (Pro | vide fie | id measureme | nts and narrative de | scription | of other field | data) | |
| Informati | on available u | ipon s | specific r | equest | • - | | | |
| Informati | | | | equest known | | | | |
| PART 6—OFF-SITE | GENERATOR INFO | RMATIO | N Un | known | | | | |
| PART 6—OFF-SITE | GENERATOR INFO | RMATIO | N Un | known | CILITY | | | 02 D + 8 NUM |
| PART 6—OFF-SITE | GENERATOR INFO | RMATIO | IN Un | known POSING AT THIS FA | CILITY | | | 02.D + 8 NUM |
| PART 5—OFF-SITE | GENERATOR INFO | RMATIO | IN Un | known POSING AT THIS FA | | FD #. etc) | | 02 D + 8 NUM |
| PART 6—OFF-SITE | GENERATOR INFO | RMATIO | OMPANY DISF 0+8 NUMBER 04 SIC CODE | known POSING AT THIS FA | | | D6 STATE | |
| PART 6-OFF-SITE | GENERATOR INFO | RMATIO | OMPANY DISF 1-8 NUMBER 04 SIC CODE | known POSING AT THIS FA 01 NAME 03 STREET ADDRESS 05 CITY | | | | 04 SIC C |
| PART 6—OFF-SITE | GENERATOR INFO | RMATIO | OMPANY DISF 0+8 NUMBER 04 SIC CODE | known POSING AT THIS FA | | | | 04 SIC C |
| PART 6-OFF-SITE | GENERATOR INFO | RMATIO | OMPANY DISF 1-8 NUMBER 04 SIC CODE | known POSING AT THIS FA 01 NAME 03 STREET ADDRESS 05 CITY | iP O. Boz. AP | (0 | | 04 SIC C |
| PART 6—OFF-SITE | GENERATOR INFO | RMATIO | OMPANY DISP 1-8 NUMBER 04 SIC CODE ZIP CODE 0-8 NUMBER 04 SIC CODE | known POSING AT THIS FA OT NAME OS STREET ADDRESS OS CITY OT NAME | iP O. Boz. AP | FD 4. e1C) | | 04 SIC C |

Sources of Information for this Report

- 1. Company Operation Files
- 2. Exxon NFRRC, "Preliminary Safety Analysis Report," Docket 50-564, 1975.
- 3. McMaster, W. M., "Geologic Map of the Oak Ridge Reservation, Tennessee," Martin Marietta Energy Systems, Inc., Oak Ridge National Laboratory, Health Physics Division, Oak Ridge, Tennessee, 1963.
- 4. McMaster, W. M., "Hydrologic Data for the Oak Ridge Area, Tennessee,"
 U. S. Geological Survey, Water Supply Paper 1839-N, 1967.

Division of Solid Waste Management

Report on Potential Hazardous Waste Disposal Facility

| Report on Potent | ial Hazar | dous V | Waste D | isposal | Facilit | y 101 |
|--|--|----------------|----------------------|--------------------------|----------------------|--|
| PART 1 - FACILITY INFORMATION AND ASSESS | | | | (| LIDENTIFIC | |
| II. FACILITY NAME AND LOCATION | | | | | | |
| Or FACILITY NAME/Logal common or descriptive name of sit Y-12 Walk-In Pits | •) | 1 | ROUTE NO. OR'S | PECIFIC LOCATIO | N IDENTIFIER | |
| oak Ridge | | OA STATE TN | 37831 | ∞ county Anders | · · | 07 COUNTY , CODE29 |
| 08 COORDINATES 5 5 5 7 5 0" 8 4° | ONGITUDE 1 7 5 5" | | | | | |
| OP DIRECTIONS TO FACILITY (Sterling from neerest public rose Approximately 2.5 miles west on Plant. | | Road fr | rom the m | ain portal | l of the | Y-12 |
| III. RESPONSIBLE PARTIES | | | | | | • |
| U.S. Department of Energy | | P. O. | Box E | | | • |
| Oak Ridge | · · · · · · · · · · · · · · · · · · · | 04 STATE TN | 37831 | 06 TELEPHONE (615) 57 | | |
| 07 OPERATOR (If known and different from owner) Same as above | | OS STREET | | | | |
| OS CITY | | 10 STATE | 17 ZIP CODE | 12 TELEPHONE | REDMUN | |
| 13 TYPE OF OWNERSHIP (Check one) C. A. PRIVATE C. S. FEDERAL: | (Specify) | ncy name: | 1068 | G C. STATE | | E MUNICIPAL |
| 14 FACILITY STATUS (Cheek one) ZEAL ACTIVE II 8. INACTIVE II C. UNKNOWN | | - | 1968 Beginning ye | 198 | GYEAR | ☐ NNKNOMN |
| IV. NOTIFIER INFORMATION | | | | | 1 | |
| OT NOTIFIER NAME (Company name) | 02 STREET OR BOX | | - | | CTELEPHON | |
| U.S. Department of Energy | P. O. BO | | 07 COUNTY | | OS DATE - | 576-0845 |
| Oak Ridge | 1 1 | 831 | Anderso | n : | _ | 8 / 3 / 84 ONTH DAY YEAR |
| R. L. Sleeman | | 10 CONTAC | ππιε DOE Env | - Oak Ri ironmenta | dge Oper 1 Coordi | ations nator |
| 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Compone 12 BRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS | | |). ETC.) | | | |
| Production of nuclear weapons | | , 0000000 | ICED EACH II | ITY | | |
| PART 2. INFORMATION CONCERNING WASTE 1. WASTE STATES, QUANTITIES, AND CHARA | | | | | | ······································ |
| O1 PHYSICAL STATES (Cheer all that apply) O2 WASTE OL O3 PHYSICAL STATES (Cheer all that apply) O4 A. SOLID O5 E. SLURRY O6 F. LIQUID O7 C. SLUDGE O7 CUSK O7 CUSK | IANTITY AT SITE INTEREST OF WASTE QUANTITY OF INDEPENDENT OF TONS. | titles | 03 WASTE CH | zive 🗆 | Toxic EP Toxic | seiy) |
| (Specify) OR NO. OF | | | 1984 | asive [] | Other | |
| 04 DATES OF WASTE DISPOSAL BY NOTIFER AT ABOVE SE | re: From19 | <u>68</u> | 1704 | · · | | |

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Tennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| | | A A SA | | | | | | | |
|---|---|--|-----------------|--|---|---|---|---------------------------------------|-----------------------|
| PART 2. W | PART 2 · WASTE INFORMATION—continued | pen | | | | | | OI DISPOSAL FACILITY ID NO | CHITY ID NO |
| II. HAZARD | II. HAZARDOUS WASTES (Reference Hezardous Waste Regulations for Code Numbers) | ardous Waste Regulation | ns for Code Num | ibers) | | | | . N/A | |
| OI HAZARDOUS WASTE CODE | 02 SUBSTANCE NAME | 03 SOURCE OF WASTE (Activity Producing Waste) | | 04 TREATMENT METHOD (Ref. Process Codes) | 05 STORAGE/DISPOSAL METHOD (Ref. Process Codes) | DE AMOUNT DISPOSED PER MONTH | 07 UNIT OF MEASURE | 08 CONCENTRATION AS DISPOSED | 09 UNIT OF MEASURE |
| N/A | Depleted Uranium Powders & Grindings | Machining | Operations | NA | S03/D80 | 14,000 | 1Ь/шо | | |
| D001 D002 | Misc. Lab Chemicals | s Plant Operat | ions | NA | 803/080 | | | | |
| 0003 | See Attachment] f | for general descr | iption of | vaste and op | eration. | | | | |
| | | | • | | | | | | |
| | | | | | | | | | |
| | NOTE: Since | 1981 facility ha | is received | only Urahi | ım fines and p | owders. | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | • |
| | | | | - | • | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| TOTAL QUANT | TOTAL QUANTITY OF HAZARDOUS WASTE DISPOSED PER MONTH == | D PER MONTH == 14 000 | 1b/mo | (Annroximatelv) | | | | | |
| PROCESS CODES: | CODES: | | 12 | Storage. | Code | Disposal: | | Code | |
| Trestment: TANK SURFACE IMPOUNDMENT INCINERATOR | 60 00 00 00 00 00 00 00 00 00 00 00 00 0 | is for physical, chemical, blotopical tresiment not occurring in tanks, port occurring in tanks, he process in the space | · | CONTAINER (berret, drum, etc) TANK WASTE PILE SURFACE IMPOUNDMENT OTHER (bescribe process in the space provided; Part 2-111) | į. | INJECTION WELL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUNDM OTHER (Describe proc in space provided; Par | INJECTION WELL LANDFRL LANDAPLICATION OCEAN DISPOSAL SURFACE IMPOUNDMENT OTHER (Describe process in space provided; Parl 2 III) | D D D D D D D D D D D D D D D D D D D | |

| DARTO WASTE | NFORMATION—Continue | d | L IDENTIF | ICATION |
|---|---|---------------------------------|---|-------------------------|
| PARI 2—WASIE | NFORMATION—Continue | i u | 01 FACILITY | - · - · |
| W EYRI ANATION OF B | ROCESS CODES, PARTICULARL | Y "OTHER" CORES HEE | | N/A |
| III. EXPERNATION OF P | OCESS CODES, PARTICULARE | 7 OTHER CODES COL | THE PAINT STR | |
| See Attachment 1 | | | | |
| • | | | | |
| | • | | | |
| | | | | |
| PART 3—DESCRIP | TIVE INFORMATION | | | |
| I. FACILITY DESCRIPTION | ON . | | | |
| 01 DESCRIPTION OF METHOD | OF OPERATION, CLOSURE, COVER, ETC. | | | • |
| | | | | |
| See Attachment 1 | | | | |
| | | | | |
| | CURITY (FENCING, LIGHTING, ETC.) WHE | | | |
| The area is fenc | ed, posted, and locked | d. See Attachment | l for further co | mment. |
| II. CONTAINMENT | | - | • | |
| OT DESCRIPTION OF DRUMS, D | iking, Liners, Barriers, Leachate Co | LLECTION AND TREATMENT SY | STEMS. ETC | |
| | lly placed in drums a no leachate collection | | | arriers or |
| III. ACCESSIBILITY | | , | | |
| 01 WASTE EASILY ACCESSIBLE | (exposed at surface?): |) | | |
| 02 COMMENTS | | | | |
| | | | | |
| PART 4—DEMOGR | APHIC, WATER, AND EN | VIRONMENTAL DAT | Ά | |
| I. DEMOGRAPHIC AND P | PROPERTY INFORMATION | | | |
| C: ESTIMÁTED TOTAL POPULAT | | _ | | Y-12 Plant |
| A. Residents within 12 mt. radius | Zero 8. Resident | s within 1 mi. radius Zero | C. No. Employees | on site6000 |
| | IC MAP FOR 1 MI. RADIUS OF FACILITY S | HOWING THE FOLLOWING: | | |
| - | dings and other major structures kes (both groundwater and surface water) | | | |
| II. GROUNDWATER | TO TOO TO STORY OF WELEY | | | |
| OT GROUNDWATER USE IN VIC | NITY (Check as applicable) | <u> </u> | | |
| C A ONLY SOURCE FOR DRINI | KING B. DRINKING (Other sources evenledle) C. COMMERCIAL INDUSTRIAL (NO other water sources even | (Limite) | CIAL INDUSTRIAL IRRIGATION d other sources eveileble) | K E NOT USED, UNUSEABLE |
| 02 POPULATION WITHIN 1 MI. R WHICH IS SERVED BY GROUND | | 03 DISTANCE TO DRINKING WATE | D NEAREST DOWN GRADIENT | (estimate) |
| 04 DEPTH TO UPPERMOST | 05 DIRECTION OF UPPERMOST | OS DEPTH TO AQUIFER | 07 PCTENTIAL YIELD | 08 SOLE SOURCE AQUIFER |
| AQUIEER 5-20 (m) | Southwest | OF CONCERN | 3-5GPM (god) | U YES THE NO |

| 1 | | | ł | LIBERTIFICATION | |
|---|---|--------------------------|--|---------------------------------|---------------------------------------|
| PART 4—WATER, DEMOGRA | PHIC, AND ENVIRONMENTAL | DATA . | | n facility id no. N/A | |
| IL GROUNDWATER—Continu | ed | | | | • |
| Several monitoring a | and test wells of various within a | ious depths | are located | | - |
| 10 RECHARGE AREA MYES COMMENTS SUPT | face and ground water ld flow into Bear Cree | 11 DISCHA ŽI YES EK D NO | COMMENTS Spri | ngs are reporte area. | d in |
| III. SURFACE WATER | | | | | |
| 01 SURFACE WATER USE (Check one) L. A. RESERVOIR, RECREATION DRINKING WATER SOURCE | B. IRRIGATION, ECONOMI | ically [] C. Cies | OMMERCIAL INDUSTI | RIAL XI D. NOT CURP | RENTLY USED |
| 02 POTENTIALLY AFFECTED BODIES | OF WATER | | , | • | |
| Tributary to Bear Co | reek | | • | DISTANCE TO S | (mi) |
| Bear Creek | | | | ≃0.20 | (mi) (mi) |
| IV. ENVIRONMENTAL INFOR | MATION | | | | ···· |
| 01 PERMEABILITY OF UNSATURATED | | _ □ C.10** to 10**emi | rsec [] D. GREATE | R THAN 10 -1011 /Sec | |
| 02 PERMEABILITY OF BEDROCK (Chec | | MEABLE D'C. | RELATIVELY PERMEABLE 1010—cm/1002) | 0. VERY PERMEAS | Œ. |
| C3 DEPTH TO SEDROCK < 20 (m) | 04 DEPTH OF CONTAMINATED SOIL UNKNOWN | ZONE | 05 SQIL pm 6-7 | • | |
| 06 NET PRECIPITATIONYEAR 54.45 (in) | 07 TEN YEAR 24 HOUR RAINFALL 5.2 (in) | 08 SITE SLOPE 15-20% | OIRECTION OF SITE | 1 | RAGE SLOPE -20 % |
| 09 FLOOD POTENTIAL > 100 YES | TVA Flood Control Are | a 11 DISTANCE | ETO CRITICAL HABITAT (of endangered species) | Unknown (mi) | |
| 10 DISTANCE TO WETLANDS IS ACTO I | | ENDANGI | ERED SPECIES: None | <u> </u> | |
| 12 DESCRIPTION OF FACILITY IN REL | ATION TO SURROUNDING TOPOGRAPHY | Y | | | · · · · · · · · · · · · · · · · · · · |
| | in Bear Creek Valley t. elevation) and Che | | | | |
| | • | | | | |
| | • | | | • | |
| | | | | | |
| | | | | ·• | |
| V. PHOTOGRAPHS (Provide c | opies if readily available) | | | | |
| 01 TIPE EXGROUND EX AERIAL | 02 IN CUSTODY OF Y-1 | Z HSEA DIV | | | |
| DI DATES (estimated) EARLIEST PHOTO DATE LATEST PHOTO DATE 1984 | Address: | P. O. Box Oak Ridge, | (| | |

| | | _ |
|---|--------|----|
| / | / | ے. |
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| PART 5—SAMPLE AND FIELD INFORMATION | | | | I. IDENTIFICATION 01 FACILITY ID NO. | | | |
|--|---|---------------------------|---|--|-----------------------|-----------------|--|
| | | | | | | N/A | |
| II. SAMPLES TAKEN | | | | | | | |
| SAMPLE TYPE | 01 NUMBER OF SAMPLES TAKE | N 02 8 | RIEF SUMMARY OF AN | ALYTICAL RESULTS | | | 03 SAMPLING DATES |
| GROUNDWATER | | So | me informati | on available | upon spec | ific | |
| SURFACE WATER | • | re | quest. | | | | |
| AMBIENT AIR | | | | | | | |
| METHANE | | | , | ` | | • | |
| RUNOFF | | | | | | | · |
| SOIL | | | | | | | • |
| VEGETATION | | | | | | | |
| OTHER | | | | | | | |
| I. OTHER FIELD DA | TA COLLECTED (| Provide (| field measurement: | s and narrative de | scription of oth | ner field data) | |
| Information a | vallable upo | on spe | - | · · · · · · · · · · · · · · · · · · · | | . | • • • |
| PART 6—OFF-SITE | GENERATOR INF | FORMAT | 10N | | CILITY | | |
| | GENERATOR INF | FORMAT | 10N | | CILITY | | 02 D + 8 NUMBE |
| PART 6—OFF-SITE L OTHER GENERATO | GENERATOR INF | FORMAT | ION COMPANY DISPO | SING AT THIS FA | | | 02 D + 8 NUMBE |
| PART 6—OFF-SITE OTHER GENERATO NAME ORNL STREET ADDRESS (P.O. 8) | GENERATOR INF ORS WITHIN NOT ox. RFD #. erc.) of Energy | FORMAT TIFIER'S | COMPANY DISPOSED + 8 NUMBER | SING AT THIS FAI | | | |
| PART 6—OFF-SITE OTHER GENERATO NAME ORNL ISTREET ADDRESS (P.O. 8 U. S. Dept. O | GENERATOR INF ORS WITHIN NOT ox. RFD #. erc.) of Energy | FORMAT TIFIER'S | COMPANY DISPOSED + 8 NUMBER 04 SIC CODE 7391 | SING AT THIS FAC | | | ○4 SIC CODE |
| PART 6—OFF-SITE OTHER GENERATO NAME ORNL STREET ADDRESS (P O. 8) U. S. Dept. O CITY Oak Ridge NAME ORGDP STREET ADDRESS (P O. 8) U. S. Dept. O | GENERATOR INF ORS WITHIN NOT ox. RFO #. erc.) of Energy ox. RFO #. erc.) of Energy | FORMAT TIFIER'S | OMPANY DISPOSED 104 SIC CODE 7391 04 SIC CODE 37831 120 + 8 NUMBER 04 SIC CODE 2819 / 7391 | SING AT THIS FAC | (P.O. Box, AFO #. etc | OS STATE | 04 SIC CODE 07 ZIP CODE 02 D + 8 NUMBER |
| PART 6—OFF-SITE OTHER GENERATO NAME ORNL STREET ADDRESS (P.O. & CITY Oak Ridge NAME ORGDP STREET ADDRESS (P.O. & STREET ADDRESS (P.O. & ROBERT | GENERATOR INF ORS WITHIN NOT OX. AFD 8. etc.) of Energy ox. AFD 8. etc., of Energy | FORMAT IFIER'S BSTATE O | COMPANY DISPOSED TO THE PROPERTY OF SIC CODE TO THE T | SING AT THIS FACOTION OF NAME OF CITY OF NAME OF STREET ADDRESS | (P.O. Box, AFO #. etc | OS STATE | 04 SIC CODE 07 ZIP CODE 02 D + 8 NUMBER |
| PART 6—OFF-SITE OTHER GENERATO NAME ORNL STREET ADDRESS (P O. 8 U. S. Dept. O GITY Oak Ridge NAME ORGDP STREET ADDRESS (P O. 86 U. S. Dept. O GITY | GENERATOR INF ORS WITHIN NOT ox. AFD #. erc.) f Energy ox. AFD #. erc.) of Energy | BSTATE OF | COMPANY DISPOSED 104 SIC CODE 7391 22 - 8 NUMBER 22 - 8 NUMBER 24 SIC CODE 2819 / 7391 721P CODE 37831 | SING AT THIS FAC | (P.O. Box, AFD 9, etc | OS STATE | 04 SIC CODE 07 ZIP CODE 04 SIC CODE 07 ZIP CODE |

Sources of Information for this Report

- 1. Company Operation Files
- 2. Exxon NFRRC, "Preliminary Safety Analysis Report," Docket 50-564, 1975.
- 3. McMaster, W. M., "Geologic Map of the Oak Ridge Reservation, Tennessee," Martin Marietta Energy Systems, Inc., Oak Ridge National Laboratory, Health Physics Division, Oak Ridge, Tennessee, 1963.
- 4. McMaster, W. M., "Hydrologic Data for the Oak Ridge Area, Tennessee," U. S. Geological Survey, Water Supply Paper 1839-N, 1967.

ATTACHMENT 1

Additional Comments to Report on Hazardous Waste Disposal Facility - Y-12 Walk-In Pits, U. S. Department of Energy.

Supplementary Comments for Parts 2 and 3.

The facility was divided into 3 separate areas for segregation of the wastes. The operation utilized above-ground space for storage/disposal of wastes. Following placement of the wastes, an earthen cover of approximately 5 feet was placed on top of the waste.

The area was originally utilized for disposal of lab chemicals (drum and bottle quantities). The 3 distinct areas provided a method for segregating organic, acid, and caustic wastes. Records are available to indicate total quantities of chemicals placed in the pits; however, prior to 1976, identity of specific chemicals and individual quantities are not complete. The disposal of lab chemicals in the facility was discontinued in 1981.

The area was also used for storage/disposal of uranium fines and powders generated by Plant Operations. Since 1981, the facility has been used only for the storage/disposal of uranium fines and powders. Records are available for all quantities of uranium buried in this facility. The uranium accounts for 90% of the volume and generation rates reported in Part II.

State of Tennessee — Department or Fubilic Reality Division of Solid Waste Management

Report on Potential Hazardous Waste Disposal Facility

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L IDENTIFICATION PART 1 - FACILITY INFORMATION AND ASSESSMENT 01 DISPOSAL FACILITY ID NO. N/A IL FACILITY NAME AND LOCATION 12 STREET, ROUTE NO. OR SPECIFIC LOCATION IDENTIFIER 01 FACILITY NAME (Lagel, common, or descriptive name of site) Y-12 9418-3 Uranium Vault P. O. Box Y 04 STATE 05 ZIP CODE 07 COUNTY 03 CITY OS COUNTY Oak Ridge TN 37831 Anderson 29 LATITUDE LONGITUDE OF COORDINATES 3 5° 5 9' 0 9" 8 4° 15' 08" OS DIRECTIONS TO FACILITY (Starting from nearest public road) Facility is located within the Y-12 Plant Processing Area. III. RESPONSIBLE PARTIES 02 STREET 01 OWNER (If known) U.S. Department of Energy P. O. Box E OS ZIP CODE 04 STATE 03 CITY OS TELEPHONE NUMBER Oak Ridge TN 37831 (615) 575-0845 07 OPERATOR (If known and different from owner) OS STREET Same as above OS CITY 10 STATE 11 ZIP CODE 12 TELEPHONE NUMBER 13 TYPE OF OWNERSHIP (Check one) S.-D. O. E. O A PRIVATE ON B. FEDERAL C C. STATE O. COUNTY C E MUNICIPAL (Agency name) F. OTHER: C G.UNKNOWN (Specity) 15 YEARS OF OPERATION 14 FACILITY STATUS (Check one) 1960 1965 - UNKNOWN A ACTIVE & B. INACTIVE C. UNKNOWN BEGINNING YEAR ENDING YEAR IV. NOTIFIER INFORMATION 03 TELEPHONE NUMBER 01 NOTIFIER NAME (Company name) 02 STREET OR SOX NO. U.S. Department of Energy P. O. Box E 4 615 576-0845 04 CITY 05 STATE 06 ZIP CODE 07 COUNTY OS DATE 8 84 Oak Ridge TN 37831 Anderson MONTH 09 CONTACT NAME 10 CONTACT TITLE DOE - Oak Ridge Operations R. L. Sleeman Environmental Coordinator 11 SIC CODE AND DESCRIPTION LISTED 2819 - Nuclear Weapons Component Fabrication 12 BRIEF DESCRIPTION OF PRODUCTION PROCESS (ITEMS PRODUCED, ACTIVITIES INCLUDED, ETC.) Production of nuclear weapons components PART 2. INFORMATION CONCERNING WASTES DISPOSED AT REFERENCED FACILILTY I. Waste States, quantities, and characteristics at time of disposal 01 PHYSICAL STATES (Check all that apply) 02 WASTE QUANTITY AT SITE 03 WASTE CHARACTERISTICS (Check all that apply) (Measures of waste quantities must be independent) A. SOLID B. POWDER, FINES C. SLUDGE C E SLURRY C F. LIQUID C G. GAS 🖾 ignitable C Taxic TONS ☐ Reactive EP Toxic OR CUBIC YARDS O. OTHER Y orner Uranium Oxide OR NO. OF DRUMS ☐ Corresive 1960 1965 04 DATES OF WASTE DISPOSAL BY NOTIFER AT ABOVE SITE: FROM TO.

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Tennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| | | | | | | | | 1 DENTIES ATION | ATION |
|---|---|--|------------------------|--|---|--------------------------------------|--|---------------------------------|-----------------------|
| PART 2 · W. | PART 2 · WASTE INFORMATION—continued | ontinued | | | | | | 01 DISPOSAL FACILITY ID NO | ACILITY ID NO. |
| II. HAZARDO | OUS WASTES (Reference | II. HAZARDOUS WASTES (Reference Hazardous Waste Regulations ! | ions (or Code Numbers) | nbers) | | | | N/A | |
| 01 HAZARDOUS WASTE CODE | 02 SUBSTANCE NAME | ME 03 SOURCE OF WASTE (Activity Producing Waste) | - | 04 TREATMENT METHOD (Rot. Process Codes) | 05 STORAGE/DISPOSAL METHOD (Ref. Process Codes) | L DS AMOUNT DISPOSED PER MONTH | 07 UNIT OF MEASURE | 06 CONCENTRATION AS DISPOSED | 09 UNIT OF MEASURE |
| N/A | Uranium Oxide | Plant Operati | rations | N/A | NA/D80 | =2.0 | Tons/Mo | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| TOTAL QUANT | TOTAL QUANTITY OF HAZARDOUS WASTE DISPOSED PER MONTH == | | 2.0 (Approximately) | tely) | | | | | |
| PROCESS CODES | | | Code | Storage: | Code | Disposal: | | Code | |
| Treatment: TANK SURFACE IMPOUNDMENT INCINERATOR | 01 00 00 00 00 00 00 00 | OTHER (Use for physical, chemical, themas or biological treatment processes not occurring in lents, surface impoundments or inclinerators. | 10 | CONTAINER (berret, drum, etc) TANK WASTE PILE SURFACE IMPOUNDMENT | 501 502 503 503 11 | | INJECTION WELL LANDFIL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUNDMENT | D80 D80 D81 D83 | |
| | | Describe the process in the space provided PARI 2111) | | OTHER(Describe process in the space provided; Part 2-III) | | OTHER (D. | OTHER (Describe process in space provided; Part 2 Hij | * | |
| | | | | | | | | | |

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Tennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| DARTO WASTE !! | NFORMATION—Continue | <u> </u> | | I. IDENTIF | ICATION |
|---------------------------------------|---|------------------|----------------|--|--------------------------|
| PARI 2-WASIE II | | | • | 01 FAGILITY | |
| • | | | • | <u>,</u> | N/A |
| III. EXPLANATION OF PR | OCESS CODES, PARTICULARL | Y "OTHER" | CODES USED | IN PART 2-II. | |
| | | | | | |
| | | | | | |
| | • | | | | |
| | | | | | |
| · · · · · · · · · · · · · · · · · · · | | | | | |
| PART 3—DESCRIP | TIVE INFORMATION | - | | | |
| I. FACILITY DESCRIPTIO | N | | | | |
| 01 DESCRIPTION OF METHOD | OF OPERATION, CLOSURE, COVER, ETC. | | | | • |
| An available co | ncrete sump was fille | d with w | vaste. enc | ased in concrete | and the top |
| covered with as | | | , | | - 1 |
| • | | | | | |
| 02 CURRENT USE AND SITE SEC | Curity (Fencing. Lighting. ETC.) Whei | re applicabl | £. | | |
| Facility is with | hin a fenced, posted a | and lock | ed area. | | |
| | | | | | |
| II. CONTAINMENT | | <u> </u> | | | |
| | KING, LINERS, BARRIERS, LEACHATE CO | N : SCTION AN | O TREATMENT CV | P7EUE :70 | |
| The concrete sur | mp served as containme | ent for | leachate | which may have de | veloped. |
| III. ACCESSIBILITY | | | | | |
| 01 WASTE EASILY ACCESSIBLE | (exposed at surface?): | • | | | |
| 02 COMMENTS | , , -, | | | | • |
| | | | | | |
| PART 4—DEMOGR | APHIC, WATER, AND EN | VIRONMI | ENTAL DAT | Δ | |
| | | | | • | |
| I. DEMOGRAPHIC AND P | ROPERTY INFORMATION | | | | |
| CT ESTIMATED TOTAL POPULAT | ION: | . | | · | Y-12 Plant |
| A Residents within 19 mi. radius | Zero 8. Resident | s within 1 mi. r | zoius Zero | C. No. Employees | 6000 |
| CZ PROVIDE USGS TOPOGRAPHI | IC MAP FOR 1 MI. RADIUS OF FACILITY S | SHOWING THE | FOLLOWING: | • | |
| a. 20 ft. contours | | | | | |
| • | dings and other major structures les (both groundwater and surface water) | | | • | • |
| II. GROUNDWATER | | • | <u> </u> | | |
| OT GROUNDWATER USE IN VICE | NITY (Check as applicable) | **** | | | |
| A ONLY SOURCE FOR DRINK | (ING D B. DRINKING (Other sources everlable) C. COMMERCIAL INDUSTRIAL (No other water sources ever | | (Limite) | CIAL INDUSTRIAL IRRIGATION officer sources available) | 数 E. NOT USED, UNUSEABLE |
| 02 POPULATION WITHIN 1 ML R | | 1 | 03 DISTANCE TO | NEAREST DOWN GRADIENT | |
| WHICH IS SERVED BY GROUND | WATER Lero (estimate) | | ORINKING WATE | R WELL >5 (mil) | (estimate) |
| 04 DEPTH TO UPPERMOST AQUIFER | 05 DIRECTION OF UPPERMOST | OS DEPTH | TO AQUIFER | 395ACHIFER CXX | 08 SOLE SOURCE AQUIFER |
| -5-20. m | South east | <u> ->Z</u> 1 | (11) | <u>3=5-67PF* (984)</u> | a yes -Xa no |

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Tennessee Department of Public Health — Division of Solid Waste Management Report on Potential Hazardous Waste Disposal Facility

| | | | LIDENTIFIC. | | |
|--|--|--|---------------------------------|------------------------------|--|
| PART 4—WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA O1 FACILITY ID NO. N/A | | | | | |
| | | | N/A | | |
| IL GROUNDWATER—Continued | | | | | |
| 9 DESCRIPTION OF WELLS (Including usage, depth, and location—letitude and | l longitude—within | mi. radiusi | | | |
| Several monitoring and test wells of va | | | ed in the | area | |
| There are no water supply wells within | arious dep | radius of the | facility. | | |
| filete are no water supply wells within | a i-mile | 22/25 0. 5 | | | |
| 10 RECHARGE AREA | 11 DISCHA | AGE AREA | | | |
| Z YES COMMENTS | M YES | COMMENTS | | | |
| D NO | B 40 | | | | |
| II. SURFACE WATER | | | | | |
| 01 SURFACE WATER USE (Check one) | | , | | | |
| A. RESERVOIR, RECREATION B. IRRIGATION, ECONOMIC IMPORTANT RESOURCE | ically D C. C Es | OMMERCIAL INDUS | TRIAL ALD. | NOT CURRENTLY USES | |
| 02 POTENTIALLY AFFECTED SODIES OF WATER | | | | | |
| NAME: | | | | STANCE TO SITE | |
| East Fork Poplar Creek | | | | 01 (70) | |
| | | | . | (mi) | |
| | | | | ,,,,,, | |
| V. ENVIRONMENTAL INFORMATION | | | | | |
| T PERMEABILITY OF UNSATURATED ZONE (Cheek one) | | | | | |
| · · · · · · · · · · · · · · · · · · · | -@ C.10 to 10 | vsec 🗓 0. GREA | TER THAN 10 -1011 /1 | ec | |
| 22 PERMEABILITY OF BEDROCK "Cheek one) | | | | • | |
| A IMPERMEABLE DAS RELATIVELY IMPERM | | RELATIVELY PERMEAS 1010—cm/sec) | Greeter than | RY PERMEABLE 0-'com/sec) | |
| | | | | | |
| 01 DEPTH TO BEDROCK 04 DEPTH OF CONTAMINATED SOIL | ZONE | 05 SOIL pH | | • | |
| C3 DEPTH TO BEDROCK C10 Unknown mi | ZONE | 05 SOIL pM 5-7 | , | • | |
| | ZONE 08 SITE SLOPE | 5-7 | IITE SLOPE | TERRAIN AVERAGE SLOPE | |
| <10 Unknown m | · | 5-7 | RITE SLOPE | TERRAIN AVERAGE SLOPE < 5 % | |
| CO | os site slope <5 % | 5-7 | AT | < 5 % | |
| 26 NET PRECIPITATION/YEAR 07 TEN YEAR 24 HOUR RAINFALL 54.45 (in) 5.2 (in) | os site slope <5 % | 5-7 DIRECTION OF S South | Inknown | < 5 % | |
| 20 Unknown mi 26 NET PRECIPITATION/YEAR 54.45 (in) 5.2 (in) 29 FLOOD POTENTIAL FACILITY IS IN >100 YEAR FLOOD PLAIN | 08 SITE SLOPE <5 % | 5-7 DIRECTION OF S SOUTH SE TO CRITICAL HABITA (of endangered species | Inknown | < 5 % | |
| VINKNOWN MIN 26 NET PRECIPITATION/YEAR OF TEN YEAR 24 HOUR RAINFALL 54.45 (in) 5.2 (in) 29 FLOOD POTENTIAL FACILITY IS IN >100 YEAR FLOOD PLAIN 10 DISTANCE TO WETLANDS (5 sers minimum) > 5 (imi) | 08 SITE SLOPE <5 % 11 DISTANCE ENDANCE | 5-7 DIRECTION OF S South SE TO CRITICAL HABITA (of endangered species | Unknown | < 5 % | |
| 20 | 08 SITE SLOPE <5 % 11 DISTANCE ENDANCE | 5-7 DIRECTION OF S South SE TO CRITICAL HABITA (of endangered species | Unknown | < 5 % | |
| Unknown | 08 SITE SLOPE <5 % 11 DISTANCE ENDANCE (910 ft. | 5-7 DIRECTION OF S SOUTH SE TO CRITICAL HABITA (at endangered species: No | Unknown one | < 5 % _(mi) | |
| Unknown | 08 SITE SLOPE <5 % 11 DISTANCE ENDANCE (910 ft. | 5-7 DIRECTION OF S SOUTH SE TO CRITICAL HABITA (at endangered species: No | Unknown one | < 5 % _(mi) | |
| Unknownmi So net precipitation/year 07 ten year 24 hour rainfall 54.45iin) 5.2iin) So flood potential Facility is in >100 Year flood plain 10 Distance to wetlands (5 acro minimum) > 5imi) 12 Description of facility in relation to surrounding topography | 08 SITE SLOPE <5 % 11 DISTANCE ENDANCE (910 ft. | 5-7 DIRECTION OF S SOUTH SE TO CRITICAL HABITA (at endangered species: No | Unknown one | < 5 % _(mi) | |
| Unknown | 08 SITE SLOPE <5 % 11 DISTANCE ENDANCE (910 ft. | 5-7 DIRECTION OF S SOUTH SE TO CRITICAL HABITA (at endangered species: No | Unknown one | < 5 % _(mi) | |
| Unknown | 08 SITE SLOPE <5 % 11 DISTANCE ENDANCE (910 ft. | 5-7 DIRECTION OF S SOUTH SE TO CRITICAL HABITA (at endangered species: No | Unknown one | < 5 % | |
| Unknown | 08 SITE SLOPE <5 % 11 DISTANCE ENDANCE (910 ft. | 5-7 DIRECTION OF S SOUTH SE TO CRITICAL HABITA (at endangered species: No | Unknown one | < 5 % | |
| Unknown | 08 SITE SLOPE <5 % 11 DISTANCE ENDANCE (910 ft. | 5-7 DIRECTION OF S SOUTH SE TO CRITICAL HABITA (at endangered species: No | Unknown one | < 5 % _(mi) | |
| Unknown | 08 SITE SLOPE <5 % 11 DISTANCE ENDANCE (910 ft. | 5-7 DIRECTION OF S SOUTH SE TO CRITICAL HABITA (at endangered species: No | Unknown one | < 5 % _(mi) | |
| Unknown | 08 SITE SLOPE <5 % 11 DISTANCE ENDANCE (910 ft. | 5-7 DIRECTION OF S SOUTH SE TO CRITICAL HABITA (at endangered species: No | Unknown one | < 5 % _(mi) | |
| Unknown | 08 SITE SLOPE <5 % 11 DISTANCE ENDANCE (910 ft. | 5-7 DIRECTION OF S SOUTH SE TO CRITICAL HABITA (at endangered species: No | Unknown one | < 5 % | |
| Unknown | 08 SITE SLOPE <5 % 11 DISTANCE ENDANCE (910 ft. | 5-7 DIRECTION OF S SOUTH SE TO CRITICAL HABITA (at endangered species: No | Unknown one | < 5 % _(mi) | |
| Unknown | 08 SITE SLOPE <5 % ENDANG Y (910 ft. estnut Ridge | DIRECTION OF S South SE TO CRITICAL HABITA (at endangered species: No sered species: No elevation) s e (1,100 ft. | Unknown one | < 5 % _(mi) | |
| Unknown | 08 SITE SLOPE <5 % IN DISTANCE ENDANCE Y (910 ft. estnut Ridge 2 HSEA UTY or organization and | DIRECTION OF S South SE TO CRITICAL HABITA (of endangered species: No elevation) s e (1,100 ft. | Unknown one | < 5 % _(mi) | |
| Unknown | OB SITE SLOPE <5 % II DISTANCE Y (910 ft. estnut Ridge Z HSEA UIV | DIRECTION OF S South SE TO CRITICAL HABITA (of endangered species: Ni ERED SPECIES: Ni elevation) s e (1,100 ft. | Unknown one | < 5 % | |

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| | ND FIELD INFOR | RMATIO | N | • | · · · · · · · · · · · · · · · · · · · | ITIFICATION ILITY ID NO. N/A | |
|------------------|------------------------------|----------|--|---|---------------------------------------|------------------------------------|---|
| I. SAMPLES TAKEN | | | | | | | |
| SAMPLE TYPE | 01 NUMBER OF SAMPLES TAKE | 02 | BRIEF SUMMARY OF | ANALYTICAL RESULTS | | | 03 SAMPLING DATES |
| GROUNDWATER | SAMPLES TAKE | | ome informat | ion available | upon speci | fic | |
| SURFACE WATER | | | equest. | | | | |
| AMBIENT AIR | - | | <u> </u> | | | | • |
| METHANE | | | | | | | |
| RUNOFF | | | | | | | |
| SOIL | | | | | | | • |
| VEGETATION | | | | | | | |
| OTHER | | | | | | | |
| | TA COLLECTED (| Provide | field measureme | nts and narrative de | scription of othe | r field data) | |
| <u>.</u> | | | | | | | |
| PART 5—OFF-SITE | GENERATOR IN | FORMA | TION NOT A | PPLICABLE | · | | |
| | | | COMPANY DIS | POSING AT THIS FA | CILITY | | |
| | | | | | CILITY | | 02 D + 8 NUMBS |
| . OTHER GENERAT | ORS WITHIN NOT | | COMPANY DIS | POSING AT THIS FA | | | |
| OTHER GENERAT | ORS WITHIN NOT | | COMPANY DISE 02 D + 8 NUMBER 04 SIC CODE | POSING AT THIS FAI | | | |
| OTHER GENERATO | ORS WITHIN NOT | TIFIER'S | COMPANY DISE 02 D + 8 NUMBER 04 SIC CODE | OSING AT THIS FAR O1 NAME | | | 04 SIC COD |
| OTHER GENERATO | ox. AFD 4. etc.) | TIFIER'S | 02 D + 8 NUMBER 04 SIC CODE 07 ZIP CODE | OSING AT THIS FAC O1 NAME C3 STREET AODRESS O5 CITY | (P.O. Box, AFD 4, etc) | 06 STATE | 02 D + 8 NUMBE 04 SIC CODE 07 ZIP CODE 02 D + 8 NUMBE 04 SIC CODE |
| OTHER GENERATO | ORS WITHIN NOT | MISTATE | 02 D + 8 NUMBER 04 SIC CODE 07 ZIP CODE 02 D + 8 NUMBER | OSING AT THIS FAL O1 NAME C3 STREET ADDRESS O5 CITY O1 NAME | (P.O. Box, AFD 4, etc) | 06 STATE | 04 SIC COD 07 ZIP CODE 02 D + 8 NUMBE |

Sources of Information for this Report

- 1. Company Operation Files
- 2. Exxon NFRRC, "Preliminary Safety Analysis Report," Docket 50-564, 1975.
- 3. McMaster, W. M., "Geologic Map of the Oak Ridge Reservation, Tennessee,"
 Martin Marietta Energy Systems, Inc., Oak Ridge National Laboratory,
 Health Physics Division, Oak Ridge, Tennessee, 1963.
- 4. McMaster, W. M., "Hydrologic Data for the Oak Ridge Area, Tennessee," U. S. Geological Survey, Water Supply Paper 1839-N, 1967.

Division of Solid Waste Management

Report on Potential Hazardous Waste Disposal Facility

| / | 1 | 1 | 4 | 1 |
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| / | ′ | | 1 | |

| PART 1 - FACILITY INFORMATION AND ASSESS | | | • | | | |
|--|--|--|--------------------------------------|--|--|---|
| ANT I. LACITI : HALAUMYHAU YUN YOSTOO | | | | N/A | L FACILITY ID NO. | |
| I. FACILITY NAME AND LOCATION | | | | | · | |
| of FACILITY NAME (Legel, common, or descriptive name of site | 0) | 1 | | SPECIFIC LOCATIO | on identifier | |
| Y-12 Burial Ground D | | | Box Y | | | |
| эз сптү | | 04 STATE | OS ZIP CODE | 06 COUNTY | | 07 COUNTY . |
| Oak Ridge | | TN | 37831 | Anders | on - | 29 |
| 3 5° 5 7' 5 5" 8 4° | ONGITUDE 1 7' 5 | 5" | | | • | |
| O DIRECTIONS TO FACILITY (Starting from nearest public road | d) | | | | | |
| Approximately 2.5 miles west on Plant. | | ek Road fi | rom the m | nain porta | l of the | e Y-12 |
| II. RESPONSIBLE PARTIES | | | | | | |
| OI OWNER (If known) | | 02 STREET | | | | |
| U.S. Department of Energy | | P. 0. | Box E | | | • |
| as city | | 04 STATE | | | | · · · · · · · · · · · · · · · · · · · |
| Oak Ridge | | TN | 37831 | (615) 57 | 76-0845 | |
| | | OS STREET | _1 | | | - |
| or operator (if known and different from owner) Same as above | | - | • | | | |
| 09 CITY | | 10 STATE | 11 ZIP CODE | 12 TELEPHON | E NUMBER | |
| | | | | () | | |
| IS TYPE OF OWNERSHIP (Check one) CLA PRIVATE CAR FEDERAL: | | D. O. E. | | C C STATE | D. COUNT | TY DE MUNICIPAL |
| g F. Ginen | (Specity | | | | | · |
| AA EAGUITU ETA TIE /Chaan aaai | 15 YEARS OF | ARER L TICH | | | | |
| 14 FACILITY STATUS (Check one) A ACTIVE B & INACTIVE B C. UNKNOWN | 13 1 24 10 01 | | 197 | | resent NG YEAR | □ UNKNOWN |
| V. | 13 1 24 10 01 | OPERATION | | | | ☐ UNKNOWN |
| IV. NOTIFIER INFORMATION | 02 STREET OR | | | | NG YEAR | □ UNKNOWN |
| IV. NOTIFIER INFORMATION 11 NOTIFIER NAME (Company name) | 02 STREET OR | SOX NO. | | | OS TELEPHO | ONE NUMBER |
| IV. NOTIFIER INFORMATION O1 NOTIFIER NAME (Company name) U.S. Department of Energy | 02 STREET OR P. O. | so x no . Box E | BEGINNING Y | | OS TELEPHO | ONE NUMBER 576-0845 |
| IV. NOTIFIER INFORMATION 11 NOTIFIER NAME (Company name) U.S. Department of Energy 04 CITY | P. O. | BOX E | BEGINNING YE | EAR ENCIP | OSTELEPHO | 576-0845 08 / 03 ⁻ /8- |
| IV. NOTIFIER INFORMATION O1 NOTIFIER NAME (Company name) U.S. Department of Energy | P. O. | SOX NO. BOX E OS ZIP CODE 37831 | aeginning yf or county Anderso | EAR ENDIP | OSTELEPHO (615 OSDATE | 08 / 03 /8 |
| IV. NOTIFIER INFORMATION O1 NOTIFIER NAME (Company name) U.S. Department of Energy O4CITY | P. O. | SOX NO. BOX E OS ZIP CODE 37831 | OF COUNTY Anderso | EAR ENCIP | OSTELEPHO (615 OSDATE | ONE NUMBER 576-0845 08 / 03 / 8. MONTH DAY YER |
| IV. NOTIFIER INFORMATION 11. NOTIFIER INFORMATION 12. NOTIFIER NAME (Company name) U. S. Department of Energy 13. Oak Ridge 14. CONTACT NAME | P. O. | SOX NO. BOX E OS ZIP CODE 37831 | OF COUNTY Anderso | ean Engir | OSTELEPHO (615 OSDATE | ONE NUMBER 576-0845 08 / 03 / 8. MONTH DAY YER |
| IV. NOTIFIER INFORMATION 1V. NOTIFIER INFORMATION 11 NOTIFIER NAME (Company name) U.S. Department of Energy OACITY Oak Ridge 29 CONTACT NAME R. L. Sleeman 11 SIG CODE AND DESCRIPTION LISTED | P. O. OS STATE TN | SOX NO. BOX E OS ZIP CODE 37831 | OF COUNTY Anderso | ean Engir | OSTELEPHO (615 OSDATE | ONE NUMBER 576-0845 08 / 03 / 8. MONTH DAY YER |
| IV. NOTIFIER INFORMATION 11. NOTIFIER INFORMATION 12. NOTIFIER NAME (Company name) U.S. Department of Energy 13. Oak Ridge 14. Code and description disters 15. Code and description disters 28. 28. Nuclear Weapons Compone | ©STREET OR P. O. STATE TN ent Fabri | SOX NO. BOX E OBZIP CODE 37831 10 CONTAC | OF COUNTY Anderso THILE DOE Env | ean Engir | OSTELEPHO (615 OSDATE | ONE NUMBER 576-0845 08 / 03 / 8. MONTH DAY YER |
| IV. NOTIFIER INFORMATION 1V. NOTIFIER INFORMATION 11 NOTIFIER NAME (Company name) U.S. Department of Energy OACITY Oak Ridge 29 CONTACT NAME R. L. Sleeman 11 SIG CODE AND DESCRIPTION LISTED | ©STREET OR P. O. STATE TN ent Fabri | SOX NO. BOX E OBZIP CODE 37831 10 CONTAC | OF COUNTY Anderso THILE DOE Env | ean Engir | OSTELEPHO (615 OSDATE | ONE NUMBER 576-0845 08 / 03 / 8. MONTH DAY YER |
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| PART 2 - WASTE INFORMATION continued | STEINFO | RMATION | ļ | | | | | | | 1. IDENTIFICATION | ATION |
|---|--|-------------------|---|--|--|--|---|--|--|---|-----------------------|
| II. HAZARDOI | US WASTI | ES (Referenc | ce Hazardou | II. HAZARDOUS WASTES (Reference Hazardous Waste Regulations | s for Code Numbers) | mbers) | | | | N/A | ACIETY ID NO |
| UI HAZARDOUS WASTE CODE | 02 1 | 02 SUBSTANCE NAME | AME | 03 SOURCE OF WASTE (Activity Producing Waste) | 516 *510) | D4 THEATMENT METHOD (Ref. Process Codes) | 05 STORAGE/DISPOSAL METHOD (Ref. Process Codes) | AL 06 AMOUNT DISPOSED () PER MONTH | 07 UNIT OF MÉASURE | 06 CONCENTRATION AS DISPOSED | 09 UNIT OF MEASURE |
| NA | <u>Uranium</u> Uranium | m and m Alloys | | Plant Operat | tions | NA | NA/D80 | .24 | Ton/Mo | | |
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| | A Annual Control of the Control of t | | | | | | | | | | |
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| | | | | | | | | | | | |
| TOTAL QUANTITY OF HAZARDOUS WASTE DISPOSED PER MONTH == | Y OF HAZARI | DOUS WASTE D | NSPOSED PER M | AONTH = 24 TON, | n/Mo (App | /Mo (Approximately) | | | | | |
| PROCESS CODES | | Code | Treatment | | Code Sic | Storage: | Code | Disposal | | Code | |
| TANK SUHFACE IMPOUNDMENT INCINERATOR | | 101 102 103 | OTHER (Use for the the processes not a surface impound Describe the proportion of the provided PARI | OTHER (Use for physical, chemical, therms or blokogical treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the process in the space provided PART 2 (11) | 104 174 174 174 174 174 174 174 | CONTAINER (berret, drum, etc) TANK WASTE PILE SURFACE IMPOUNDMENT OTHER (Describe process in the space | 503 503 11 503 14 the space 505 | | INJECTION WELL LANDFILL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUNDMENT OTHER (Describe process in space provided; Part 2 III) | 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 | |

| PART 2—WASTE INFORMATION—Continued | I. IDENTIFICATION 01 FACILITY ID NO. |
|--|--|
| | N/A |
| II. EXPLANATION OF PROCESS CODES, PARTICULARLY "OTHER" CODES US | ED IN PART 2-IL |
| | |
| | • |
| • | |
| | |
| PART 3—DESCRIPTIVE INFORMATION | |
| I. FACILITY DESCRIPTION | |
| 01 DESCRIPTION OF METHOD OF OPERATION. CLOSURE. COVER, ETC. | • |
| Trenches were excavated, filled with waste, covered wastenes were unlined. | ith soil, and seeded with grass. |
| 02 CURRENT USE AND SITE SECURITY (FENCING, LIGHTING, ETC.) WHERE APPLICABLE. | |
| Facility is active within a posted and locked area. | |
| IL CONTAINMENT | The second secon |
| 01 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, LEACHATE COLLECTION AND TREATMENT. | SYSTEMS. ETC |
| There were no liners, barriers, or leachate collection | on/treatment used in the trenches. |
| III. ACCESSIBILITY | |
| 01 WASTE EASILY ACCESSIBLE (exposed at surface?): □ YES □ NO | |
| 02 COMMENTS | · |
| Facility is within a posted area. | |
| PART 4—DEMOGRAPHIC, WATER, AND ENVIRONMENTAL DA | ATA |
| | · · · · · · · · · · · · · · · · · · · |
| L DEMOGRAPHIC AND PROPERTY INFORMATION . | Y-12 Plant |
| CT ESTIMATED TOTAL POPULATION: A. Residents within 12 mil radius Zero B. Residents within 1 mil radius Zero | |
| | |
| 22 PROVIDE USGS TOPOGRAPHIC MAP FOR 1 MI. RADIUS OF FACILITY SHOWING THE FOLLOWING: a. 20 ft. contours b. existing roads, buildings and other major structures c. drinking water intakes (both groundwater and surface water) | |
| II. GROUNDWATER | |
| | ERCIAL INDUSTRIAL IRRIGATION (C. NOT USED. UNUSEABLE inted other sources available) |
| | ETO NEAREST DOWN GRADIENT ATER WELL > 5 (mi) (estimate) |
| 04 DEPTH TO UPPERMOST OS DIRECTION OF UPPERMOST OF DEPTH TO AQUIFER AQUIFER FLOW OF CONCERN OF CONCERN (11) | 07 POTENTIAL YIELD 08 SOLE SOURCE AQUIFER 05 AQUIFER 3-5 (3P) (appl) 0 YES 20 NO |

| | | | I. IDENTIFICATION | | | |
|---|------------------|-------------------------------|---|--|--|--|
| PART 4—WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA | \ | | 01 FACILITY ID NO. | | | |
| II. GROUNDWATER—Continued | | | | | | |
| II. GROUNDWATER—CONTINUED OB DESCRIPTION OF WELLS (Including usage, depth, and location—letitude and longitude—within 1 mi. radius) | | | | | | |
| Several monitoring and test wells of various depths are located near this facility. There are no water supply wells within a 1-mile radius of this facility. | | | | | | |
| 10 RECHARGE AREA | 11 DISCH/ | ARGE AREA | | | | |
| TYPES COMMENTS Surface and ground water could flow into Bear Creek | C YES | COMMENTS FTO | wing springs have been orted in this area. | | | |
| III. SURFACE WATER | | | | | | |
| 01 SURFACE WATER USE (Cheex one) I A. RESERVOIR. RECREATION I B. IRRIGATION, ECONOMICALL IMPORTANT RESOURCES | .Y 🗆 C. (| COMMERCIAL INDUS | TRIAL 💆 D. NOT CURRENTLY USED | | | |
| 02 POTENTIALLY AFFECTED BODIES OF WATER | | | DISTANCE TO SITE | | | |
| Tributary to Bear Creek | | | | | | |
| Bear Creek | | | ≃0.40 (mi) | | | |
| | | | | | | |
| IV. ENVIRONMENTAL INFORMATION OI PERMEABILITY OF UNSATURATED ZONE (Check one) | | | | | | |
| | 10 to 10cn | vsec 🔲 D. GREAT | ER TMAN 10-tem/sec | | | |
| 02 PERMEABILITY OF BEDROCK (Check one) | • | • | _ | | | |
| C A IMPERMEABLE C S. RELATIVELY IMPERMEABLE C C. RELATIVELY PERMEABLE C D. VERY PERMEABLE (Less than 10 cm/sec) (10 to 10 cm/sec) (Greeter than 10 cm/sec) | | | | | | |
| 23 DEPTH TO BEDROCK 04 DEPTH OF CONTAMINATED SOIL ZONE UNKNOWN (m) | | 05 SOIL pH 5-7 | • | | | |
| | SITE SLOPE | DIRECTION OF SI | | | | |
| 09 FLOOD POTENTIAL | 11 DISTANC | E TO CRITICAL HABITAT | T Unknown | | | |
| facility is in <u>> 100</u> year flood plain | | (at endangered species | Unknown (mi) | | | |
| 10 DISTANCE TO WETLANDS (5 scre minimum) >5 (mi) | ENDANG | ERED SPECIES: | one | | | |
| 12 DESCRIPTION OF FACILITY IN RELATION TO SURROUNDING TOPOGRAPHY | | | | | | |
| Facility is located in Bear Creek Valley (91 Pine Ridge (1,200 ft elevation) and Chestnut | 0 ft. e Ridge | elevation) si (1,100 ft. e | tuated between levation). | | | |
| • | | | | | | |
| • | | | | | | |
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| | | | | | | |
| V. PHOTOGRAPHS (Provide copies if readily available) | | | | | | |
| | SEA DIV | 1510n | | | | |
| (Name of orga | nization and | individual contact) | | | | |
| 23 DATES resumeted: 1965 EARLIEST PHOTO DATE 1984 Address: Odk LATEST PHOTO DATE 1984 | <u>Ridge,</u> | TN 37831 | | | | |

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| 17 | OFMATIO | N | | 01 FACILITY ID | NO. | |
|--|-----------|---|---|--|------------|---|
| | | | | N/A | | |
| I. SAMPLES TAKEN | - | | • | | | |
| SAMPLE TYPE 01 NUMBER OF SAMPLES TA | KEN 02 | BRIEF SUMMARY OF A | NALYTICAL RESULTS | | | 03 SAMPLING DATES |
| GROUNDWATER | Sc | ome informat | ion available up | on specific | | |
| SURFACE WATER . | re | equest. | | | | |
| AMBIENT AIR | | | | | | |
| METHANE | | | | - | | |
| RUNOFF | | | | | | |
| SOIL | | | | | | • |
| VEGETATION | | | | | | |
| OTHER | | | | | | |
| II. OTHER FIELD DATA COLLECTED | (Provide | field measuremen | ts and narrative descrip | tion of other field | data) | |
| | | - | · · · · · · · · · · · · · · · · · · · | •• • • • • • • • • • • • • • • • • • • | | |
| PART 6—OFF-SITE GENERATOR II | | | olicable | | | |
| I. OTHER GENERATORS WITHIN NO | OTIFIER'S | COMPANY DISPO | SING AT THIS FACILIT | Υ | | 2 D + 8 NUMBE |
| I. OTHER GENERATORS WITHIN NO | OTIFIER'S | | | Υ | | 12 D + 8 NUMBE |
| I. OTHER GENERATORS WITHIN NO | OTIFIER'S | COMPANY DISPO | SING AT THIS FACILIT | | | 2 D + 8 NUMBE |
| I. OTHER GENERATORS WITHIN NO 11 NAME 3 STREET AODRESS (P.O. Box. RFO 4, etc.) | OTIFIER'S | COMPANY DISPO | DSING AT THIS FACILIT | 30x, RFO #. eIC) | STATE 0 | 04 SIC CODE |
| I. OTHER GENERATORS WITHIN NO 1 NAME 3 STREET AODRESS (P.O. Box. RFD #, etc.) 5 CITY | OTIFIER'S | COMPANY DISPO 02 D + 8 NUMBER | OSING AT THIS FACILIT 01 NAME 03 STREET ADDRESS (P.O. E | 30x, RFO #. eIC) | OS STATE O | 04 SIC CODE |
| I. OTHER GENERATORS WITHIN NO 1 NAME 3 STREET AODRESS (P.O. Box. RFD #, etc.) 5 CITY | OTIFIER'S | OZ D+8 NUMBER O4 SIC CODE O7 ZIP CODE | OSING AT THIS FACILIT O1 NAME C3 STREET ADDRESS (P.O. 8 | 3ox. RFO #. etc) | OS STATE O | 04 SIC CODE |
| I. OTHER GENERATORS WITHIN NO IN NAME 3 STREET ADDRESS (P.O. Box. RFD #. etc.) 5 CITY 1 NAME 3 STREET ADDRESS (P.O. Box, RFD #. etc.) | OTIFIER'S | 02 D + 8 NUMBER 04 SIC CODE 07 ZIP CODE | OSING AT THIS FACILIT 01 NAME 03 STREET ADDRESS (P.O. E 05 CITY 01 NAME | 0ox, RFO #. etc; | OS STATE O | 04 SIC CODE 7 ZIP CODE 2 D + 8 NUMBER |
| PART 6—OFF-SITE GENERATOR II I. OTHER GENERATORS WITHIN NO DI NAME DI STREET ADDRESS (P.O. Box. RFD #. etc.) SGITY STREET ADDRESS (P.O. Box. RFD #. etc.) SGITY PART 7—SOURCES OF INFORMAT | OSTATE | OZ D + 8 NUMBER O4 SIC CODE O7 ZIP CODE O4 SIC CODE O7 ZIP CODE | OSING AT THIS FACILIT O1 NAME C3 STREET ADDRESS (P.O. & O5 CITY O1 NAME O3 STREET ADDRESS (P.O. & O5 CITY | 30x, RFO #. etc) | OS STATE O | 04 SIC CODE 7 ZIP CODE 04 SIC CODE |

Sources of Information for this Report

- 1. Company Operation Files
- 2. Exxon NFRRC, "Preliminary Safety Analysis Report," Docket 50-564, 1975.
- 3. McMaster, W. M., "Geologic Map of the Oak Ridge Reservation, Tennessee,"
 Martin Marietta Energy Systems, Inc., Oak Ridge National Laboratory,
 Health Physics Division, Oak Ridge, Tennessee, 1963.
- 4. McMaster, W. M., "Hydrologic Data for the Oak Ridge Area, Tennessee," U. S. Geological Survey, Water Supply Paper 1839-N, 1967.

Division of Solid Waste Management

Report on Potential Hazardous Waste Disposal Facility

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| SMENT | | | | OT DISPOSAL | FACILITY ID NO. |
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| | | | | | 07 COUNTY |
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| Bear Cre | ek Road f | rom the m | ain porta | l of the | Y-12 |
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| | P. 0 | . Box E | | | • |
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| | OS STREET | | | | |
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| | 10 STATE | 11 ZIP CODE | 12 TELEPHONE | NUMBER | |
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| IS TEAMS UP | 4- 5UN 1.414 | 1960 BEGINNING YE | | | ☐ UNKNOWN |
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| 05 STATE | 06 ZIP CODE | 07 COUNTY | | OS DATE | 08 / 03 / 84 |
| TN | 37831 | Anderso | n | | MONTH DAY YE |
| <u> </u> | 10 CONTA | TITLE DOE | - Oak Ri | dge Oper | rations |
| | | Env | ironmenta | 1 Coordi | inator |
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| | cation | D. ETC.) | | <u> </u> | |
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| COMPONENT | IVITIES INCLUDE | NCED FACILI | LTY | | |
| PRODUCED, ACT COMPONENT ES DISPOSED CTERISTICS A | AT REFEREN | NCED FACILI DISPOSAL | LTY | (Check all that | apary) |
| PRODUCED, ACT COMPONENT ES DISPOSED CTERISTICS A JANTITY AT SITE IBLIES OF WARRE OF | AT REFEREN | NCED FACILI DISPOSAL 03 WASTE CO | IARACTERISTICS | | |
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| COMPONENT COMPONENT ES DISPOSED CTERISTICS ANTITY AT SITE LEURES OF WASIE OF TONS 600 | AT REFEREN | OSPOSAL OS WASTE CH Signation Ci Resi | NARACTERISTICS | Taxic Ra | |
| COMPONENT COMPONENT ES DISPOSED CTERISTICS | AT REFEREN | NCED FACILI DISPOSAL 03 WASTE CH M Ignet | NARACTERISTICS | Toxic Ra | dioactive |
| | U. S. [(Specify) 15 YEARS OF (P. O. E 05 STATE | OZSTREET P. 0 GASTATE TN ONGITUDE 1 7' 5 8" Bear Creek Road f C2 STREET P. 0 GASTATE TN GASTATE | DESTREET, ROUTE NO. OR SP. O. BOX Y OASTATE OS ZIP CODE TN 37831 ONGITUDE 1 7' 5 8" DESTREET P. O. BOX E OASTATE OS ZIP CODE TN 37831 OBSTREET 10 STATE 11 ZIP CODE U. S. D. O. E. (Agency name) (Specify) 13 YEARS OF OPERATION P. O. BOX E OS STREET 10 CONTACT TITLE DOE 10 CONTACT TITLE DOE | DOUBTITUDE TO BOX Y ON STATE OF ZIP CODE OF COUNTY TO 37831 Anders ONGITUDE 1 7' 5 8" DEAR Creek Road from the main porta C2 STREET P. 0. BOX E O4 STATE OF ZIP CODE TO TELEPHONE (SDOCITY) 10 STATE TO ZIP CODE TO TELEPHONE (SDOCITY) 11 SYEARS OF OPERATION OS STREET (SOCITY) 12 STATE TO SIP CODE TO TELEPHONE (SDOCITY) 13 YEARS OF OPERATION 1960 198 BEGINNING YEAR ENDIN C2 STREET OR BOX NO. P. 0. BOX E OS STATE OF ZIP CODE TO COUNTY TN 37831 Anderson TO CONTACT TITLE DOE - Oak Ri | OR STREET OS STREET OS STREET P. O. BOX Y OS STATE OS ZIP CODE OS COUNTY TN 37831 Anderson ON STATE OF STREET P. O. BOX E OS STREET P. O. BOX E OS STREET OS STREET 10 STATE 11 ZIP CODE 12 TELEPHONE NUMBER (Agency name) (Specify) 15 YEARS OF OPERATION 1960 1983 SEGINNING YEAR ENDING YEAR OS STREET OS |

| PARI 2 · W | PART 2: WASTE INFORMATION continued | 1-continued | | | | | | I. IDENTIFICATION | VTION |
|--------------------------------------|--|--|---|--|---|------------------------------------|---|--|-----------------------|
| II. HAZARD | OUS WASTES (Reter | ence Hazardou | II. HAZARDOUS WASTES (Reference Hazardous Waste Regulations for Cou | for Code Numbers) | | | - | NA NA | |
| UI HAZARDOUS WASTE CODE | 02 SUBSTANCE NAME | E NAME | 03 SOURCE OF WASTE (Activity Producing Waste) | 04 THEATMENT METHOD (Ref. Process Codes) | US STORAGE/DISPOSAL METHOD (Ref. Process Codes) | DE AMOUNT DISPOSED PER MONTH | 07 UNIT OF MEASURE | 04 CONCENTRATION AS DISPUSED | 09 UNIT OF MEASURE |
| NA | Uranium and | | Plant Operations | NA | S01/D80 | 50 | Ton/Mo | NA | NA |
| | | | | | | · | | | |
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| | | | | | | | | | |
| TOTAL QUANT | 101AL QUANTITY OF HAZARDOUS WASTE DISPOSED PER MONTH | TE DISPOSED PER M | 50 Ton/Mo | (approximately) | | | | | |
| PROCESS CODES: | CODES: | Treatment | Code | Storege: | Code | Disposet | | Code | |
| TANK SURFACE IMPOUNDMENT INCINERATOR | | OTHER (Use for the | Other Russ for physical chemical, 104 thermal or blokolical treatment processes not occurring in leaks, surface impoundments or inclinatelots. Describe the process in the space provided PART 2 III) | CONTAINER (borre), drum, etc.) TANK WASTE PLE SUNFACE IMPOUNDMENT OTHER (Describe process in the space | 501 502 503 11 504 14 the space 505 | | MAECTION WELL LANDFAL LANDFAL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUNDMENT OTHER POSCIND POCESS IN Space provided; Part 2 HB | 22 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | |
| - | | | | | | | | • | |

| | NEODMATION - O | | | 1. | IDENTIF | CATION |
|---|--|----------------|-----------------------|--|--------------|------------------------|
| PART 2-WASTE | NFORMATION—Continue | a | • • | ٥ | 1 FACILITY | 0 NO. |
| | | | | | N/A | |
| III. EXPLANATION OF PR | OCESS CODES, PARTICULARL | Y "OTHER | " CODES USED | IN PART 2-IL | | |
| | | | | | | |
| | | | | | | |
| | • | | | | | |
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| | | | | | | |
| PART 3—DESCRIP | TIVE INFORMATION | | | | | |
| I. FACILITY DESCRIPTIO |)N | | | | | · |
| 01 DESCRIPTION OF METHOD | of operation, closure, cover, etc. | | | | | • |
| Trenches were exc | cavated, filled with w | aste, | covered wi | th soil, an | d seede | ed with grass. |
| Trenches were un | lined. Waste was segr | regated | according | to hazards | and Fo | rm of material. |
| | | 20 100 10 10 | | | | |
| UZ CURRENT USE AND SITE SE | Curity (Fencing, Lighting, ETC.) Whei | es applicat | | | | |
| The area is with | in a posted and locked | i area. | | • | | |
| | | | | | | |
| II. CONTAINMENT | | - | | | | |
| | | · • | | | | |
| III. ACCESSIBILITY | | | | | | |
| 01 WASTE EASILY ACCESSIBLE | (exposed at surface?): | | | | | |
| 02 COMMENTS | • | | | | | • |
| | | | | | | |
| PART 4—DEMOGR | APHIC, WATER, AND EN | VIRONM | IENTAL DAT | ' A | | |
| L REMOCRATIVE AND S | PROPERTY INFORMATION | | | | | |
| C: ESTIMATED TOTAL POPULAT | | | | | · | Y-12 Plant |
| A Residents within "s mi. radius | | s within 1 mi. | radius Zero | C. N | o. Employees | 6000 |
| | IC MAP FOR 1 MI. RADIUS OF FACILITY | | | | | |
| a. 20 ft. contours | • | HUWING IH | E FOLLOWING. | | | |
| - | idings and other major structures kes (both groundwater and surface water) | | | | | |
| II. GROUNDWATER | | | | | | |
| 01 GROUNDWATER USE IN VIC | • | | | | | |
| C A ONLY SOURCE FOR DRINI | KING B. DRINKING (Other sources eveilable) G. COMMERCIAL INDUSTRIA (No other water sources ev | | (Limite | Cial industrial ii d other sources even | | E. NOT USED. UNUSEABLE |
| 02 POPULATION WITHIN 1 ME. F WHICH IS SERVED BY GROUND | 7 | | 03 DISTANCE TO | O NEAREST DOWN (| | estimater |
| 04 DEPTH TO UPPERMOST ADULTER 5-20 (tt) | os direction of uppermost acuifer flow Southwest | OS DEP | TH TO AQUIFER DINGERN | 07 POTENTIAL OE AQUIFE 3-5 GPM | YIELD | 08 SQLE SQURCE AQUIFER |
| | | | | 1 | | |

| | | | LIDENTIF | CATION |
|---|--|--|-----------------------|---|
| PART 4-WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DAT | Ά. | | 01 FACILITY | |
| - | | | <u>N</u> | <u>/A </u> |
| IL GROUNDWATER—Continued | | | | |
| 9 DESCRIPTION OF WELLS (including usage, depth, and location-lieflude and long | | • | | |
| Several monitoring and test wells of various | s depths | are located | within | 3000 ft. of |
| this facility. There are no water supply we | ells with | in a l-mile | radius | or this |
| facility. | T | | | |
| 10 RECHARGE AREA | 11 DISCHAR | ge area Comments | | |
| TYPES COMMENTS | E 10 | | | |
| II. SURFACE WATER | | | <u> </u> | |
| 11. SURFACE WATER USE (Check one) | | | | |
| A. RESERVOIR, RECREATION DRINKING WATER SOURCE IMPORTANT RESOURCES | TA B C'CO | MMERCIAL INDUS | TRIAL Ö | D. NOT CURRENTLY USED |
| 02 POTENTIALLY AFFECTED BODIES OF WATER | | | | |
| NAME: | | | ٠ 🛥 | DISTANCE TO SITE |
| Tributary to Bear Creek | | | | (mi) |
| Bear Creek | | | | (mi) |
| | | | | |
| IV. ENVIRONMENTAL INFORMATION | | | | |
| 01 PERMEABILITY OF UNSATURATED ZONE (Check one) | | | | |
| ☐ A. 10-10 10-cm/sec | C.10 to 10-1cm/s | ec C D. GREAT | TER THAN 10-4 | em/sec |
| 02 PERMEABILITY OF BEDROCK (Check one) | ILE D'C'R | ELATIVELY PERMEAS 010—cm/soci | | VERY PERMEABLE en 10"cm/sec) |
| 03 DEPTH TO SEDROCK 04 DEPTH OF CONTAMINATED SOIL ZON UNknown (m) | Æ | 05 SQIL pH 5-7 | | • |
| 26 NET PRECIPITATION/YEAR 07 TEN YEAR 24 HOUR RAINFALL 08 | SITE SLOPE | DIRECTION OF S | ITE SLOPE | TERRAIN AVERAGE SLOPE |
| 54.45 (in) 5.2 | <5 | South | | <u><5_</u> % |
| | 11 DISTANCE | TO CRITICAL HABITA | 7 | |
| 09 FLOOD POTENTIAL FACILITY IS IN > 100 YEAR FLOOD PLAIN | | (of endangered specie | Unknow | (m)_N |
| 10 DISTANCE TO WETLANDS IS BEEN MINIMUM! > 5 (MI) | ENDANGE | RED SPECIES: NOT | ie | |
| | | | | |
| Facility is located in Bear Creek Valley (9 Pine Ridge (1,200 ft. elevation) and Chestn | 910´ft. e nut Ridge | levation) si (1,100 ft. | ituated l elevatio | petween on). |
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| | - | un para para de la composición dela composición de la composición dela composición de la composición d | | |
| V. PHOTOGRAPHS (Provide copies if readily available) | | • | | |
| V V 1 | | 6 7 6 6 | | |
| | HSEA DIVI | | | |
| OT PATES ASSESSMENT TO SEE | HSEA DIVI Genization and in O. Box Y k Ridge, | dividual contact) | | |

| 12 | 4 |
|----|---|
| | , |

| SAMPLES TAKEN GROUNDWATER SOME INFORMATION AVAILABLE UPON SPECIFIC SURFACE WATER PEQUEST. AMBIENT AIR METHANE RUNOFF SOIL OTHER GILL OTHER FIELD DATA COLLECTED (Provide field measurements and narrative description of other field data) IN OTHER FIELD DATA COLLECTED (Provide field measurements and narrative description of other field data) PART 5—OFF-SITE GENERATOR INFORMATION I. OTHER GENERATORS WITHIN NOTIFIER'S COMPANY DISPOSING AT THIS FACILITY IN NAME ORGDP OZ D - 8 NUMBER O | II. SAMPLES TAKEN | ND FIELD INFOR | MATIO | N | • | 1. IDENTIFICATI | | |
|--|---|----------------|---|--------------------|---------------------------------|--------------------|------------|---------------|
| SAMPLE TYPE OT NUMBEROY SAMPLESTAKEN OR SHIEF SUMMARY OF ANALYTICAL RESULTS OR SAMPLESTAKEN SOME information available upon specific SURFACE WATER AMBIENT AIR METHANE RUNOFF SOIL VEGETATION OTHER II. OTHER FIELD DATA COLLECTED (Provide field measurements and narrative description of other field data) Information available upon specific request. PART 8—OFF-SITE GENERATOR INFORMATION COTHER GENERATORS WITHIN NOTIFIER'S COMPANY DISPOSING AT THIS FACILITY INAME ORGIND OR SITE OF SHOW SHEET ADDRESS (P.O. SOL. RED. SEC.) U. S. Dept. of Energy ON SIC CODE ON S | II. SAMPLES TAKEN | <u> </u> | | · | | N/A | | |
| GROUNDMATER SAMPLESTAKEN SOME INFORMATION available upon specific SURPACE WATER request. AMBIENT AIR METNANE BUNDOFF SOIL VEGETATION OTHER II. OTHER FIELD DATA COLLECTED (Provide field measurements and narrative description of other field data) Information available upon specific request. PART 8—OFF-SITE GENERATOR INFORMATION OTHER GENERATORS WITHIN NOTIFIER'S COMPANY DISPOSING AT THIS FACILITY INAME ORGDP STREET ADDRESS (P.O. BOL. AFOR. SIC.) U. S. Dept. of Energy OBSTATE OF STREET ADDRESS (P.O. BOL. AFOR. SIC.) OA SICCODE OA SICCODE | | A NUMBER OF | T | | | | _ | 03 SAMPLING |
| SURPACE WATER PEQUEST. AMBIENT AIR METHANE RUNOFF SOIL VEGETATION OTHER II. OTHER FIELD DATA COLLECTED (Provide field measurements and narrative description of other field data) Information available upon specific request. PART 8—OFF-SITE GENERATOR INFORMATION OTHER GENERATORS WITHIN NOTIFIER'S COMPANY DISPOSING AT THIS FACILITY INAME ORGDP ISTREET ADDRESS (P.O. 801. RFO 1. etc.) U. S. Dept. of Energy OS STATE OT 2P CODE OAK Ridge TN 37831 NAME O2 0 - 8 NUMBER O1 NAME O2 0 - 8 NUMBER O3 STREET ADDRESS (P.O. 801. RFO 1. etc.) OAK SICCODE O3 STREET ADDRESS (P.O. 801. RFO 1. etc.) OAK SICCODE O3 STREET ADDRESS (P.O. 801. RFO 1. etc.) OAK SICCODE O3 STREET ADDRESS (P.O. 801. RFO 1. etc.) OAK SICCODE O3 STREET ADDRESS (P.O. 801. RFO 1. etc.) O4 SICCODE O3 STREET ADDRESS (P.O. 801. RFO 1. etc.) O4 SICCODE O3 STREET ADDRESS (P.O. 801. RFO 1. etc.) O4 SICCODE O3 STREET ADDRESS (P.O. 801. RFO 1. etc.) O4 SICCODE O5 STREET ADDRESS (P.O. 801. RFO 1. etc.) O4 SICCODE O3 STREET ADDRESS (P.O. 801. RFO 1. etc.) O4 SICCODE O5 STREET ADDRESS (P.O. 801. RFO 1. etc.) O4 SICCODE O5 STREET ADDRESS (P.O. 801. RFO 1. etc.) O4 SICCODE O5 STREET ADDRESS (P.O. 801. RFO 1. etc.) O4 SICCODE O5 STREET ADDRESS (P.O. 801. RFO 1. etc.) O4 SICCODE O5 STREET ADDRESS (P.O. 801. RFO 1. etc.) O4 SICCODE O5 STREET ADDRESS (P.O. 801. RFO 1. etc.) O4 SICCODE O5 STREET ADDRESS (P.O. 801. RFO 1. etc.) O4 SICCODE O5 STREET ADDRESS (P.O. 801. RFO 1. etc.) O4 SICCODE O5 STREET ADDRESS (P.O. 801. RFO 1. etc.) O4 SICCODE O5 STREET ADDRESS (P.O. 801. RFO 1. etc.) O4 SICCODE O5 STREET ADDRESS (P.O. 801. RFO 1. etc.) O4 SICCODE O5 STREET ADDRESS (P.O. 801. RFO 1. etc.) O4 SICCODE O5 STREET ADDRESS (P.O. 801. RFO 1. etc.) O5 STREET ADDRESS (P.O. 801. RFO 1. etc.) | SAMPLE TYPE | | N | | | | + | DATES |
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| METHANE RUNOFF SOIL VEGETATION OTHER III. OTHER FIELD DATA COLLECTED (Provide field measurements and narrative description of other field data) Information available upon specific request. PART 6—OFF-SITE GENERATOR INFORMATION I. OTHER GENERATORS WITHIN NOTIFIER'S COMPANY DISPOSING AT THIS FACILITY INAME ORGODP ORGODP ORSIGE ODE ORSIGE ODE OS SICCODE OS SICCODE OS SICCODE OS SICTY OS STATE OF ZIPCODE OAK Ridge TN 37831 OS SICCODE OAK RIDGE OAK SICCODE OAK SICCODE OAK SICCODE OAK RIDGE OAK SICCODE OAK SICC | SURFACE WATER | | re | quest. | | | | |
| PART 6—OFF-SITE GENERATOR INFORMATION OTHER GENERATORS WITHIN NOTIFIER'S COMPANY DISPOSING AT THIS FACILITY INAME ORGDP OSTATE OF SICCODE OSTATE OF SICCODE OSTATE OF SICCODE OA SI | AMBIENT AIR | | | | | | | |
| VEGETATION OTHER II. OTHER FIELD DATA COLLECTED (Provide field measurements and narrative description of other field data) Information available upon specific request. PART 6—OFF-SITE GENERATOR INFORMATION OTHER GENERATORS WITHIN NOTIFIER'S COMPANY DISPOSING AT THIS FACILITY INAME ORGDP | METHANE | | | | | • | | |
| VEGETATION OTHER II. OTHER FIELD DATA COLLECTED (Provide field measurements and narrative description of other field data) Information available upon specific request. PART 8—OFF-SITE GENERATOR INFORMATION OTHER GENERATORS WITHIN NOTIFIER'S COMPANY DISPOSING AT THIS FACILITY INAME ORGDP OCCUPANY OUR SIC CODE OUR RIdge TN 37831 OUR SIC CODE OUR SIC COD | RUNOFF | | | | | | | |
| II. OTHER FIELD DATA COLLECTED (Provide field measurements and narrative description of other field data) Information available upon specific request. PART 6—OFF-SITE GENERATOR INFORMATION OTHER GENERATORS WITHIN NOTIFIER'S COMPANY DISPOSING AT THIS FACILITY INAME ORGDP SITREET ADDRESS (P O. 80x. RFD *, etc.) OA SIC CODE | SOIL | | | | | | | • |
| IN OTHER FIELD DATA COLLECTED (Provide field measurements and narrative description of other field data) Information available upon specific request. PART 8—OFF-SITE GENERATOR INFORMATION OTHER GENERATORS WITHIN NOTIFIER'S COMPANY DISPOSING AT THIS FACILITY INAME | VEGETATION | | | | | | | |
| Information available upon specific request. PART 8—OFF-SITE GENERATOR INFORMATION OTHER GENERATORS WITHIN NOTIFIER'S COMPANY DISPOSING AT THIS FACILITY NAME ORGDP OSTREET ADDRESS (P.O. Box. RFD 8, etc.) OS SIC CODE OS STREET ADDRESS (P.O. Box. RFD 8, etc.) OS STATE OF STREET ADDRESS (P.O. Box. RFD 8, etc.) OS STATE OS STAT | OTHER | | | | | | | |
| Information available upon specific request. PART 8—OFF-SITE GENERATOR INFORMATION OTHER GENERATORS WITHIN NOTIFIER'S COMPANY DISPOSING AT THIS FACILITY NAME ORGDP OSTREET ADDRESS (P.O. Box. RFD 8, etc.) OS SIC CODE OS STREET ADDRESS (P.O. Box. RFD 8, etc.) OS STATE OF STREET ADDRESS (P.O. Box. RFD 8, etc.) OS STATE OS STAT | IL OTHER FIELD DAT | A COLLECTED (F | rovide | field measurement: | s and narrative description | of other field dat | a) | |
| ORGDP STREET ADDRESS (P.O. Box. RFD #. etc.) U. S. Dept. of Energy CITY Oak Ridge NAME OBSTATE O7 ZIP CODE O3 STREET ADDRESS (P.O. Box. RFD #. etc.) O4 SIC CODE O5 CITY O6 STATE O7 ZIP CODE O7 Z | PART 6-OFF-SITE | GENERATOR INF | ORMA | пом | | | | |
| ORGDP ISTREET ADDRESS (P.O. Box. RFD #. etc.) U. S. Dept. of Energy OB STATE 07 ZIP CODE Oak Ridge NAME O2 D+8 NUMBER O4 SIC CODE O3 STREET ADDRESS (P.O. Box. RFD #. etc.) O4 SIC CODE O5 CITY O5 CITY O6 STATE 07 ZIP CODE O7 ZIP C | . OTHER GENERATO | RS WITHIN NOT | IFIER'S | COMPANY DISPOS | SING AT THIS FACILITY | | | • |
| U. S. Dept. of Energy Of Sic Code Tagging To Street Address (P.O. Box, RFD #, etc.) Of Sic Code Tagging To Street Address (P.O. Box, RFD #, etc.) Of Sic Code Tagging To Street Address (P.O. Box, RFD #, etc.) Of Sic Code Tagging To Street Address (P.O. Box, RFD #, etc.) Of Sic Code Tagging To Street Address (P.O. Box, RFD #, etc.) Of Sic Code Tagging To Street Address (P.O. Box, RFD #, etc.) Of Sic Code Tagging To Street Address (P.O. Box, RFD #, etc.) Of Sic Code Tagging To Street Address (P.O. Box, RFD #, etc.) Of Sic Code Tagging To Street Address (P.O. Box, RFD #, etc.) Of Sic Code Tagging To Street Address (P.O. Box, RFD #, etc.) | - | | | 02 D + 8 NUMBER | 01 NAME | | 9 | 2 D + 8 NUMBE |
| U. S. Dept. of Energy 7391/2819 CITY 06 STATE 07 ZIP CODE 05 CITY 06 STATE 07 ZIP CODE 07 ZIP CODE 08 STATE 07 ZIP CODE 09 STATE 09 STA | | v REOR are i | <u> </u> | I 04 SIC CODE | G3 STREET ADDRESS (P.O. Box B) | ED B. etc: | | 04 SIC COD |
| Oak Ridge TN 37831 NAME 02 D + 8 NUMBER 01 NAME 02 D + 8 NUMBER 02 D + 8 NUMBER 02 D + 8 NUMBER 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE | | | | | | , c.c., | | |
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| | | | | | 1 01 NAME | <u> </u> | | |
| | Oak Ridge | <u>-</u> | i | OZ D + B NUMBER | | | į a | 20+8 NUMBE |
| CITY 06 STATE 07 ZIP CODE 05 CITY 08 STATE 07 ZIP CODE | Oak Ridge | | | UZ D + B NUMBER | | | a: | 2D+8 NUMBE |
| | Oak Ridge | | · designation of the control of the | | | D *. etc) | | |
| | Oak Ridge NAME STREET ADDRESS (P.O. Box | • | | 04 SIC CODE | 03 STREET ADDRESS (P.O. Box, RP | | | 04 SIC CODE |

Division of Soild Waste Management

Report on Potential Hazardous Waste Disposal Facility

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| | | | | | LIDENTIF | ICATION |
|--|--|------------------------------|------------------------|-----------------------|--------------------------|---------------------------------------|
| PART 1 - FACILITY INFORMATION AND ASSE | SSMENT | | | | | FACILITY ID NO. IA |
| L FACILITY NAME AND LOCATION | | | | | | |
| FACILITY NAME (Legal, common, or descriptive name of | Site) | 02 STREET | ROUTE NO. OR S | PECIFIC LOCATIO | ON IDENTIFIER | |
| Y-12 Coal Pile Trench | | P. 0 | Box Y | | | · · · · · · · · · · · · · · · · · · · |
| s city | | 04 STATE | 05 ZIP CODE | OE COUNTY | | OF COUNTY . |
| Oak Ridge | | IN | 37831 | Anders | on | 29 |
| COORDINATES LATITUDE . 3 5°5 8' 2 5" 8 4° | LONGITUDE | | | | | |
| DIRECTIONS TO FACILITY (Staning from nearest public i | reedi | t <u>-</u> | | | | |
| Approximately 1.0 mile west o (west end of Y-12 Plant). | n Bear Cre | ek Road fr | om the ma | in portal | of the | Y-12 Plant |
| I. RESPONSIBLE PARTIES | | | | | | • |
| OWNER (If known) | | 02 STREET | | | | |
| U.S. Department of Energy | | P. 0 | Box E | | | • |
| oak Ridge | | 04 STATE TN | 37831 | 615) 57 | | |
| OPERATOR (If known and different from owner) | | OS STREET | | | | |
| Same as above | | | | | | |
| I CITY | | 1G STATE | 11 ZIP CODE | 12 TELEPHONE | REMUN E | |
| TYPE OF OWNERSHIP (Cheek ane) | 11 5 | D. O. E. | | <u> </u> | | |
| C A PRIVATE O & FEDERAL | | (Agency name: | | C. STATE | □ 0. COUNT | Y DE MUNICIPAL |
| @ F.OTHER. | (Seecin | y) | | C G.UNKNOW | VN | |
| 4 FACILITY STATUS (Cheex one) | 15 YEARS OF | OPERATION | 1965 | 1 10 | 66 | |
| □ A ACTIVE B & INACTIVE □ C. UNKNOW! | u | - | BEGINNING YE | | IG YEAR | ☐ UNKNOWN |
| V. NOTIFIER INFORMATION | | | | | | |
| T NOTIFIER NAME (Company name) | 02 STREET OF | SOX NO. | | | 03 TELEPHO | ONE NUMBER |
| U.S. Department of Energy | P. 0. | Box E | • | | (615 | 576-0845 |
| A CITY | OS STATE | 06 ZIP CODE | 07 COUNTY | | 08 DATE | 8 / 3 / 8 |
| Oak Ridge | TN | 37831 | Anderso | n | - | MONTH DAY YEA |
| R. L. Sleeman | | 10 CONTAC | TITLE DOE | - Oak Ri ironmenta | idge Oper | rations |
| | | | ĒIIA | 11 Onnence | 11 60014 | THE COT |
| n sic code and description usted 2819 - Nuclear Weapons Compo | nent Fabri | cation | | : | | • |
| 12 SAIEF DESCRIPTION OF PRODUCTION PROCESS (ITEM | as produced. Ac | TIVITIES INCLUDES |), ETC.; | | | |
| | • | | | | | |
| | | | | | | |
| Production of nuclear weapons | s componen | 162 | | | | |
| Production of nuclear weapon | s componen | 162 | | | | |
| Production of nuclear weapon | s componen | | | | | |
| | | | | . === | | |
| | | | CED FACILII | | | |
| ART 2 INFORMATION CONCERNING WAS | TES DISPOSE | O AT REFEREN | | LTY | | |
| PART 2. INFORMATION CONCERNING WAS WASTE STATES, QUANTITIES, AND CHAR | TES DISPOSEI ACTERISTICS | D AT REFEREN AT TIME OF C | ISPOSAL | ARACTERISTICS | (Choca all the | ? &25(Y) |
| PART 2. INFORMATION CONCERNING WAS WASTE STATES, QUANTITIES, AND CHAR PHYSICAL STATES (Check all liner seely) A. SOLID G. E. SLURRY | TES DISPOSEI ACTERISTICS QUANTITY AT SITE feasures of waste of must be independent | O AT REFEREN | ISPOSAL | ARACTERISTICS | Checa all their | : 206 (Y) |
| PART 2 INFORMATION CONCERNING WAS WASTE STATES, QUANTITIES, AND CHAR PHYSICAL STATES (Cheex all liner again) X A. SOLID B. POWDER, FINES G. E. SLUDGE OR CLI | TES DISPOSEI ACTERISTICS QUANTITY AT SITE | O AT REFEREN | ISPOSAL 03 WASTE CH | ARACTERISTICS | | : 426/Y) |
| PART 2 INFORMATION CONCERNING WAS WASTE STATES, QUANTITIES, AND CHAR PHYSICAL STATES (Check all linet apply) A SOULD S. POWOER FINES C. SLUDGE OR CUI | TES DISPOSEI ACTERISTICS QUANTITY AT SITE feasures of waste of must be independ DX. TONS | O AT REFEREN | D Igniti | ARACTERISTICS | Taxic EP Taxic Other_Dep | leted Uranium |

lymessee Department of Public Leamn - Orthon or Solic Casternana gradent Report on Potential Hazardous Waste Disposal Facility

| PARI 2.W | PART 2 - WASTE INFORMATION — continued | -conflued | | | | And the state of t | | • | I. IDENTIFICATION | ATION |
|--|---|--|---|-----------------|--|--|------------------------------------|---|--|-----------------------|
| II. HAZARO | OUS WASTES (Refere | ance Hazardou | II. HAZARDOUS WASTES (Reference Hezerdous Waste Regulations for | r Cade Numbers) | thers) | | | | NA NA | |
| UI HAZARDOUS WASTE CODE | 02 SUBSTANCE NAME | NAME | 03 SCHIRCE OF WASTE (Activity Producing Waste) | | 04 INEATMENT METHOD (Not Process Codes) | 05 STORAGERDISPOSAL METHOD (Ref. Process Codes) | DE AMOUNT DISPOSED PER MONTH | 07 UNIT OF MEASURE | 06 CONCENIRATION AS DISPOSED | 09 UNIT OF MEASURE |
| NA | Depleted uranium and depleted uranium alloy | lum and nium alloys | Plant operations | S | NA | NA/D80 | 183 | ton/mo | NA | NA |
| | | | | | | | | | | |
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| | 1 | | | | | | | | | |
| IOTAL QUANT | IOIAL QUANIIIY OF HAZARDOUS WASTE DISPOSED PER MONTH == | E DISPOSED PER A | момтн≕ 183 ton (| (approximately) | mately) | | | | | |
| PROCESS CODES: | CODES: . | Treetment | Code | | Storage: | Code | Disposal: | | Code | |
| TANK SUNFACE IMPOUNDMENT INCINERATON | | OTHER (Use to thermal or blod processes mpour Surface (mpour Describe the pr | Other flus for physical, chamical, thems to biological treatment processes not occurring in tenhs, full call and a surface impoundments of incline store provided PARI 2 III) | | CONTAINER (berrel, drum, etc) TANK WASTE PH E SUHFACE IMPOUNDMENT OTHER (Describe process in the space | 502 503 503 17 18 504 14 the space 505 | | MJECTION WELL LAND APPLICATION OCEAN UISPOSAL SUIRFACE IMPOUNDMENT OTHER (Poscribe process In space provided; Fert 2 III) | 976 960 960 960 960 960 960 960 960 960 96 | 126 |
| | | | | | | | | | | |

| BADTO WASTE | NEODMATION - Cartier | | | ļ | L IDENTIF | ICATION |
|---|--|---------------------------------------|------------------------|-------------------------------|---------------|---------------------------------------|
| PARIZ-WASIE | NFORMATION—Continue | 6 Q | 4 | | 01 FACILITY | IO NO. |
| | | | • | | 1 | NA |
| III. EXPLANATION OF PE | rocess codes, particularl | Y "OTHER | CODES USE | D IN PART 2-II. | | |
| The facility wa | as used for disposal o nount of miscellaneous | f deplet non-ura | ed uraniu nium mate | m, deplete rial. | d uranio | um alloys, |
| PART 3—DESCRIP | TIVE INFORMATION | | | | | · · · · · · · · · · · · · · · · · · · |
| I. FACILITY DESCRIPTION | DN | · · · · · · · · · · · · · · · · · · · | | | | |
| 01 DESCRIPTION OF METHOD | of Operation. Closure. Cover. etc. | | | | | • |
| Trenches were e | excavated, filled with | waste, | and cover | ed with so | 11. | |
| 02 CURRENT USE AND SITE SE | Curity (Fencing, Lighting, ETC.) whe | RE APPLICABL | .£. | | <u></u> | |
| The area is cur and locked. | rently used for the s | tockpili | ng of coa | l. The are | ea is fe | nced, posted, |
| II. CONTAINMENT | | | | | | |
| | iking. Liners. Barriers. Leachate Co | | | | | |
| There were no li | iners, barriers, or lea | achate c | ollection, | treatment/ | systems | used in |
| III. ACCESSIBILITY | | | | | | |
| 01 WASTE EASILY ACCESSIBLE 02 COMMENTS | (exposed at surface?): 📮 YES 🕰 NO | • | | | | |
| PART 4—DEMOGR | APHIC, WATER, AND EN | VIRONMI | ENTAL DAT | A | | |
| I. DEMOGRAPHIC AND P | ROPERTY INFORMATION | | • | | | |
| C: ESTIMATED TOTAL POPULAT | ION: | | | | | 6,000 |
| A Residents within to mill radius | 8. Resident | S within 1 mi, r | adius 0 | c.) | io. Employees | on site Y-12 Plant |
| 32 PROVIDE USGS TOPOGRAPHI a. 20 ft. contours | IC MAP FOR 1 MI. RADIUS OF FACILITY S | SHOWING THE | FOLLOWING. | | | • |
| | dings and other major structures les (Doth groundwater and surface water) | | | | | |
| II. GROUNDWATER | | | | | | |
| 31 GROUNDWATER USE IN VICIO | | L !RRIGATION | | CIAL INDUSTRIAL OTHER SECTION | | DE EL NOT USED, UNUSEABLE |
| 22 POPULATION WITHIN 1 MI. A. WHICH IS SERVED BY GROUND | ADIUS OF FACILITY | | 03 DISTANCE TO | NEAREST DOWN | | |
| 04 DEPTH TO UPPERMOST AQUIFER 5=20 IIII | 05 DIRECTION OF UPPERMOST AQUIFER FLOW SOUT REAST | | TO AQUIFER | OF ACUIET | L YIELD | estimate) 08 SOLE SOURCE AQUIFE; |
| | ~ | ! | ···· | | | 3 23 24 10 |

| | | <u> </u> | | L IDENTIFICATION | N |
|---|--|------------------------------------|--------------------------------------|---------------------------------------|--|
| PART 4-WATER, DEMOGR | aphic, and environmental di | ATA | | 01 FACILITY ID NO. | |
| | | • | | NA NA | |
| IL GROUNDWATER—Contin | beu | | | | |
| 09 DESCRIPTION OF WELLS (Include | ng usage, depth, and location—letitude end lo | ongitude—within 1 | mi. radius) | | |
| Several monitoring | g and test wells of vari | ious depth | s are locate | d in the area | . There |
| are no water supp | ly wells within a one () | l) mile ra | dius of the | facility. | ; - |
| | | | • | | |
| 10 RECHARGE AREA | • | 11 DISCHA | RGE AREA | | |
| X YES COMMENTS | | I YES | COMMENTS | | |
| □ NO | | - E NO | | | |
| III. SURFACE WATER | | | | | |
| 01 SURFACE WATER USE (Check one | | | | | |
| A RESERVOIR RECREATION | N E B. IRRIGATION, ECONOMIC | ALLY E C. CC | OMMERCIAL INDUST | TRIAL A D. NOT | CURRENTLY USE |
| DRINKING WATER SOURC | E IMPORTANT RESOURCES | | | | |
| 02 POTENTIALLY AFFECTED BODIE | S OF WATER | | | | • |
| NAME: | | | | DISTANCE | ETO SITE |
| East Fork Poplar | Creek | | · | 0.02 | (mi) |
| | | | | | (mi) |
| | | | | | (mi) |
| | | | | | |
| IV. ENVIRONMENTAL INFO | | | | | |
| 01 PERMEABILITY OF UNSATURATE | 1 ZONE (Check one) | | | | |
| □ A. 10 ⁻¹ 20 10 ⁻¹ | sm/sec 🔀 8.10 to 10 sm/sec . □ | C.10** to 10**em/ | tec 🛭 D. GREATI | ER THAN 10-tom/sec | |
| 02 PERMEABILITY OF BEDROCK (C) | • | - | | | • |
| · · · Q A. IMPER | MEABLE G B. RELATIVELY IMPERMEA on 10-cm/sec) (10-to 10-cm/sec) | | relatively permeabl 1010—cirizeci | E C D. VERY PERI | |
| 03 DEFTH TO BEDROCK | 04 DEPTH OF CONTAMINATED SOIL ZO | | 05 SOIL am | | |
| <10 (**) | Unknown | | 5-7 | | |
| | 110 | | • | | |
| OS NET PRECIPITATIONNEAR | | OS SITE SLOPE | DIRECTION OF SIT | TE SLOPE TERRAIN | A AVERAGE SLOPE |
| 54.45 (in) | 5-2 (in) | <u><5</u> % | South | | <u><5 </u> |
| 09 FLOOD POTENTIAL | | 11 DISTANCE | TO CRITICAL HABITAT | | |
| FACILITY IS IN >100 Y | EAR FLOOD PLAIN | | (of endangered species | Unknown (m) | |
| 10 DISTANCE TO WETLANDS (5 sere | minimum) >5 (mi) | | MED SPECIES: N | lone | |
| | | ENUANGE | 7EU 3FEUIES | | |
| 12 DESCRIPTION OF FACILITY IN RE | LATION TO SURROUNDING TOPOGRAPHY | | | | |
| | ed in Bear Creek Valley | | | | n |
| Pine Ridge (1,200 | ft elevation) and Ches | tnut Ridge | (1,100 ft e | levation). | |
| | | | | | |
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| V. PHOTOGRAPHS (Provide | copies if readily available) , | T | | | |
| | | CEA Direi - i | | | |
| OT TYPE TO GROUND TO LERIA | 02 IN CUSTODY OF Y-12 H | SEA ULVISI Inganization and inc | OTI | | |
| 03 OATES (estimated) | Address: P.O | . Box Y | | · · · · · · · · · · · · · · · · · · · | |
| EARLIEST PHOTO DATE 1984 | Uak | Ridge, IN | 1 3/831 | | |

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| PART 5—SAMPLE AND FIELD INFORMATION | | | | OT FACILITY ID NO. | |
|--|-------------------------------|--|---|--------------------------|---|
| IL SAMPLES TAKEN | | · · · · · · · · · · · · · · · · · · · | | | |
| Sample Type | 01 NUMBER OF SAMPLES TAKEN | 02 BRIEF SUMMARY OF | ANALYTICAL RESULTS | | 03 SAMPLING DATES |
| GROUNDWATER | | Some informat | ion available upon | specific request | |
| SURFACE WATER | _ | | | | |
| AMBIENT AIR | | | · · · · · · · · · · · · · · · · · · · | · | · |
| METHANE | | | | | |
| RUNOFF | | | | | |
| SOIL | 1. | | | | |
| VEGETATION | | | | | |
| OTHER | | | | | |
| OTHER EIEI D DA | TA COLLECTED (Po | avide field Secure | ents and narrative description | an of other field data) | -L |
| | | | quest. | •• • • · · · | · · · · · · · · · · · · · · · · · · · |
| PART 6—OFF-SITE | GENERATOR INFO | RMATION NOT A | PPLICABLE | •• | |
| | | | PPLICABLE | •• | |
| OTHER GENERATO | | | | •• | 02 D + 8 NUMBER |
| OTHER GENERATO | PRS WITHIN NOTIF | IER'S COMPANY DISI | PPLICABLE POSING AT THIS FACILITY OI NAME | | |
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